

Cutaneous Immunology & Allergy

- Immunology of skin
- Eczema (Dermatitis)
- Urticaria & Angioedema
- Drug Eruption
- photosensitivity

Eczema (Dermatitis)

References.

- Serieb
- Darouti
- Andrews
- Balgoin
- E. medicine
- Derm net

روك
Rokk.

Introduction:

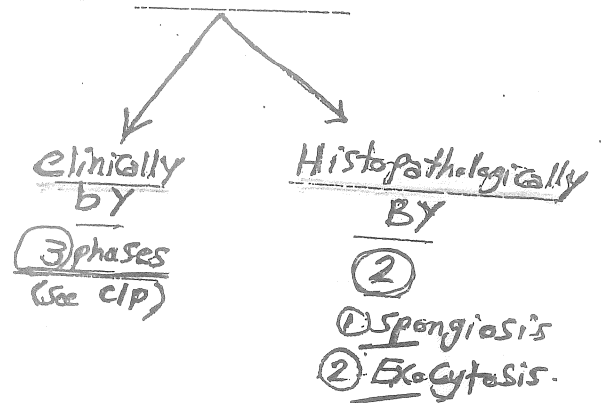
- * Def.
- * Incidence
- * Pathogenesis
- * C/P
- * Complications
- * Treatment

* definition -

ECZema: Come from the Greek word "EKzein"
قوران means "To Boil" or "To effervesce" ليق

Dermatitis: literally = ^{حرقا} inflamm. of the skin ^{يفور}
So it's broad (non) specific Term (all ECZ are dermatitis but not all dermatitis are ECZ.)
كلم عام But في العكس

Both words used by dermatologist to describe group of inflammatory skin disorders caused by variety of Ext. & internal stimuli That's characterized:



NB

ECZema,

بسيتم دكخ اوريا

Dermatitis:

ما كدخ اوريا

Acne Release > perioral dermatitis

ما ينفجش
اقول على
Eczema.

- pathology of ECZ.: (Eczema)

Perioral eczema = CD
citrus food / Tongue induced.

• Acute ECZ.

• Subacute ECZ.

• Chr. ECZ.

Acanthosis.
Parak.
Dermal
fibrosis.

Epidermal → Acanthosis
& Parakeratosis.

Dermis: Dermal
fibrosis (detected
clinically as
Lichenificat.)

Early: - Dermal Edema

(Dermal) - Perivascular Lympho-
histiocytic infilt.

then: ○ Spongiosis

(Epid) ○ Exocytosis

○ Blister format (Vesicle)

• Spongiosis ↓↓

○ Parakeratosis

○ Acanthosis

Crustat (Coagulated
plasma + Pyknotic
Nuclei).

NB Exocytosis is (Lymphocytes) + (Spongiosis)
infill. if there is:-

↑↑ Marked spongiosis +
Marked Lymph. infilt.

Dermatitis [ECZema]

↓ Scanty Spongiosis +
↑ Marked infilt.

(MF)

C/P of ECZ. (General Features)

Itching (Cardinal)

It is defined (Diff from Papulosq. Erupt.)

has (3) phases:

• Acute

- Erythema

✓ Papulo Vesiculatn

- blister & ± bullae

✓ Weeping = يبكي

✓ oozing

• Subacute

- Erythema

- Papules

← Scaling & Crustat (8)

↓ Vesiculatn &
(oozing).
سائل يخرج

• Chr.

itching

Lichenificat.

thickening
Hyperpig.
↑↑ skin Markings
(Exaggerated)

Treatment of ECZema

Acute Weeping ECZ.

①

drying antiseptic lotions

10 mins Coal Soaks

0.65% Alum. Acetate
saline
Tap Water
K-prenugrate

then

②

Smear of Cs Cream or lotⁿ

0.65% Al Acetate
gurriz sol
مان

③

non adhesive dressings

non occlusive

Staph

موجود على

Subacute ECZema

1 Cs lotⁿ or Creams

2 قشور الصفراء = Inf → Fucidin

NB. staph colonize:-

- ① all Weeping ECZ.
- ② Most of dry ones.

to differentiate bet. Colonization & overt Inf:-

- ① Heavy Crusts
- ② Large No. Islets
- ③ CRP

staph. Inf. or colonization may aggravate ECZ. & delays Healing

See - ECZema = Think staph

staph

Chr. Lichenified ECZ

Cs Ointments

also Calcineurin inhibitors CI
Icthammel
Zinc

Cs + قوة

50

① don't use potent Cs > Hydrocortisone

1% in

Face Flexures Infant

3F

② don't use:

> 200 gm / W of mild potent

> 50 gm / W of mod. potent

> 30 gm / W of superpotent

أخفها بفاز ليه
أزود اللمبة

2-3 W

then every 4 weekend

Should topical steroids be used on lesions that may be infected or colonized with bacteria?
Absolutely. Lesions get infected because the skin defense barrier is broken. The topical steroids allow it to heal, and thus the bacteria have greater difficulty infecting the skin. Such bacteria have receptors for fibrin or fibronectin that can be exposed in dermatitic, but not normal, skin.

Acute Weeping ECZ.

drying Antiseptic + Cs lotⁿ

Subacute ECZ.

Cs كريم

Chr. Lichenified ECZ

Cs مرهم

↑ potency
↑ moisturizing

Classification of eczema.

According to the causative factor whether external or internal;eczema can be classified into :

Exogenous Eczemas	Endogenous Eczemas
<p>①-<u>Contact dermatitis (CD)</u>: • Allergic CD • Irritant CD • Photoallergic CD</p> <p>②-<u>Infective dermatitis</u></p> <p>③-<u>Dermatophytid</u> = <u>Id reaction</u>.</p> <p>④-<u>Eczematous PML</u></p> <p>⑤-<u>Post-traumatic eczema</u></p>	<p>✓-<u>Atopic dermatitis</u> -<u>Seborrhoeic dermatitis</u> -<u>Stasis dermatitis</u> -<u>Frictional lichenoid dermatitis</u> -<u>Xerotic eczema</u> -<u>Discoïd eczema</u> -<u>Pityriasis alba</u> -<u>Juvenile plantar dermatosis</u> -<u>Eczematous drug eruptions</u> -<u>Metabolic eczema</u> or eczema associated with systemic disease → <u>Hand eczema</u> -<u>Exudative discoïd and lichenoid dermatitis</u> -<u>Chronic superficial scaly dermatitis</u></p>

NE: 1- This classification is not absolute because of interaction between the 2 factors.

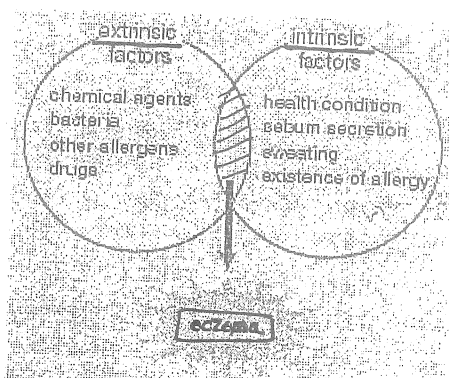


Fig. 7.5 Various factors causing eczema.
Extrinsic and intrinsic factors interact, resulting in eczema formation.

Dermatitis
Venerata

Allergic CD (ACD)

def
Incid
Pathophys.

Invs

def delayed Hypersensitivity reaction (Type IV Allergy)
resulting from cut. Contact to specific Allergens
to w the patient develop specific Allergy.

Incid: (20%) of CD cases (ICD: 80%), ACD (20%)

Pathophysiology: Type IV Delayed Hypersensitivity reaction
w has 2 phases: - التعرف

(الاجابة)

1 Induction (Sensitization) phase: (10-14 ds) 1st exposure (2 weeks) (التعرف)

(الاجابة)

2 Elicitation (Challenge) phase: (1-3 ds) recurrent exposure (2 ds) (الإثارة)

1 chemicals that can produce ACD: -

Recurrent
Exposure

(2 ds)

~ 3000 in No

of small sized molecules < 500 daltons.

2 Pathogenesis: LMW Ag haptens < 500 daltons →
When contacts the skin form haptens-carrier
protein complex → LCs display
it as complex with (HLA DR) on their
surfaces → presented to CD4 → ال
Interact w TCRs CD3 complex of CD4 → التعرف

3. ACD ch-by:

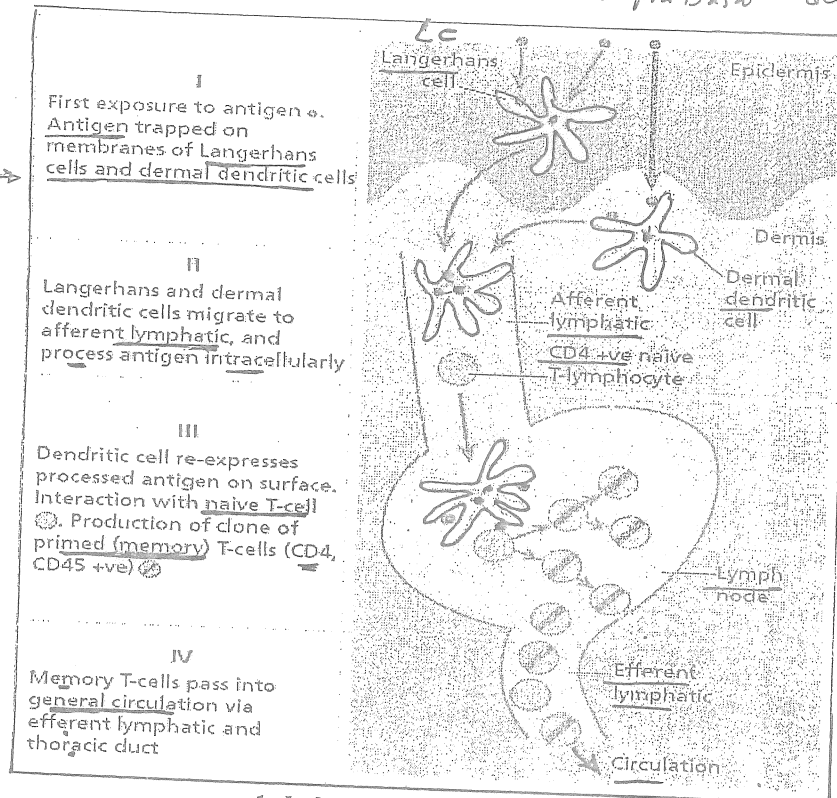
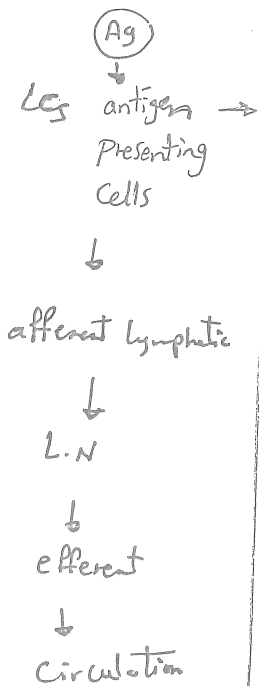
عزلة

- Previous Contact is Needed to induce Allergy.
- Specific to one chemicals & close relatives
- After Allergy has been Established all areas of skin will react to the Allergen

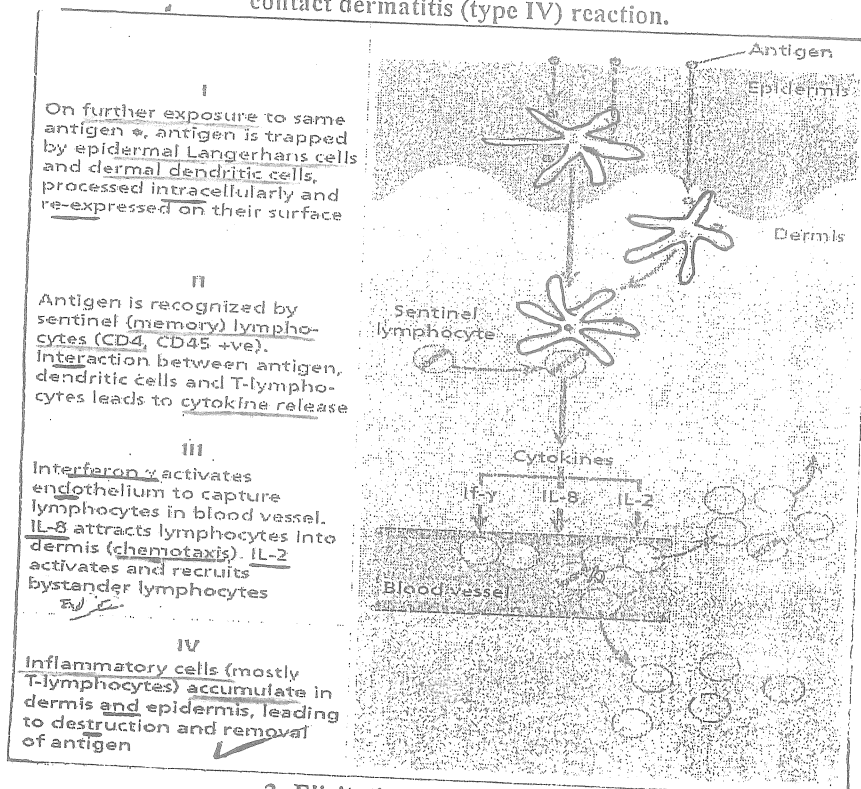
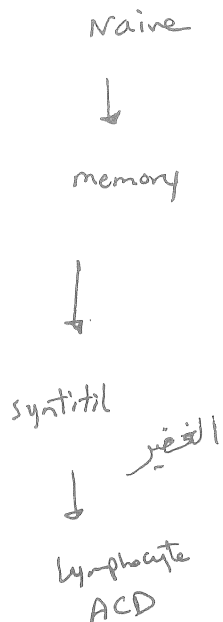
طول البروتين نادراً

- Sensitization persist "indefinitely"
- Desensitization ↓ - seldom occurs.

Suprabasal dendritic cell

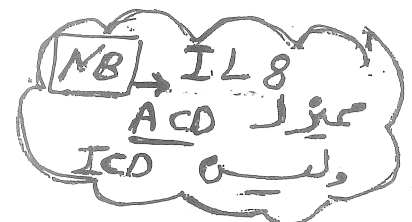
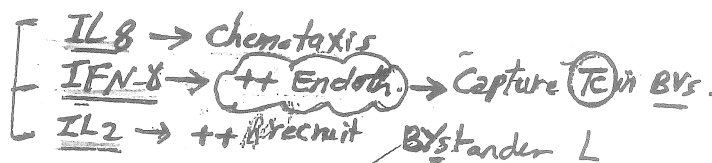


1- Induction phase of allergic contact dermatitis (type IV) reaction.



2- Elicitation phase of allergic contact dermatitis (type IV) reaction.

تکرار

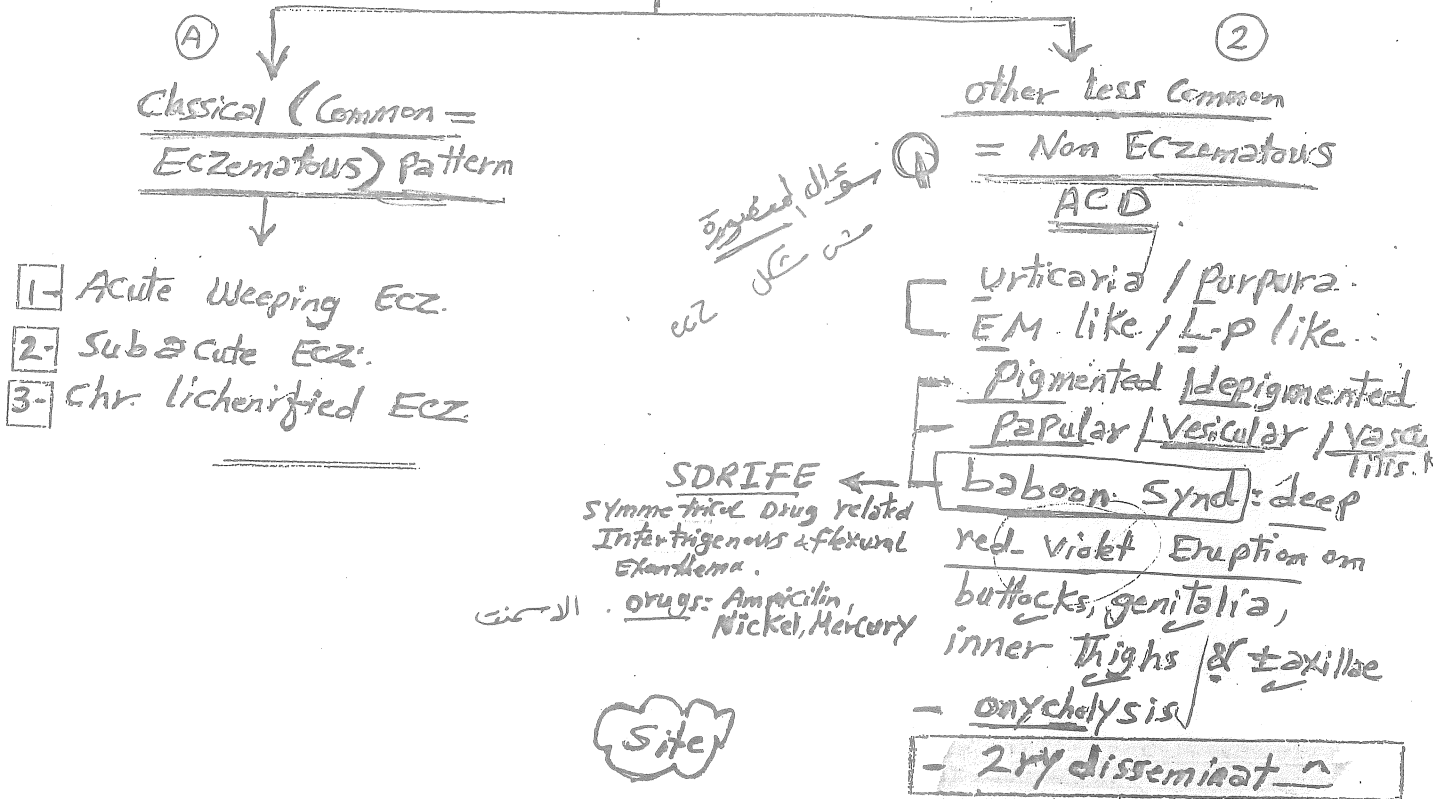


ACD ← dermis ← B.V.s ← lymphocyte

Clinical picture of ACD :-

- A. Clinical presentation ← ^{onset} site pattern. البرية
مقا
الكل ①
- B. Causative Allergens
- C. Regional ACD ②

A. Clinical presentation



Site

usually localized to site of Allergen

but Generalizat~n may occur

(Morbilloform or Exfoliative or 2ry disseminated) ACD.

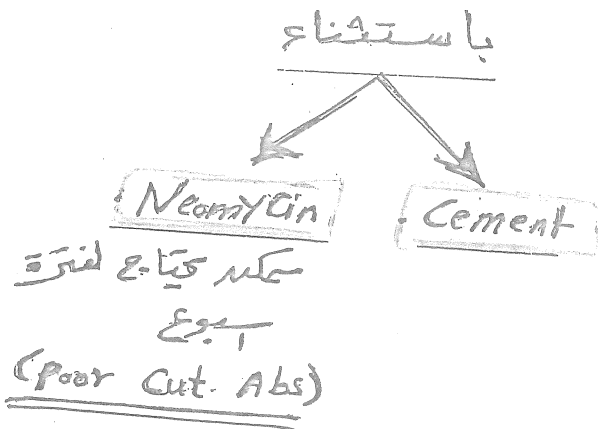
Rash
3d ac
Reaction

→ The initial site of dermatitis often provides the best clue regarding the potential Cause of ACD. (See regional ACD).

onset

→ usually 1-3 days from contact & specific

Allergen in patient who have previously sensitized by the same Allergen (= Elicit phase)



NB : Induction phase may be caused by a Topical agent while Elicitation phase caused by the same agent but when given systemically → ACD w ±:

- ① localized to site of previous contact or
- ② 2ry disseminated. Generalized

* This condition called Systemic ACD e.g. Cinnamon oil & other medications.

B. Causative Allergens

→ About (25) chemicals responsible for (50%) of ACD cases → see the table

≥ 3000 Ag

→ Commonest of them are: (10)

- Also : Toxicodendrons (Poison Ivy, oak, sumac) is a classic Example of ACD in North America is ch-by (linear streaks) of ACD that develop when plant parts have been in direct contact w skin.

(usually: fingers, Wrist forearm, genitalia)



<p>نیکل بانج سجوع</p> <p>Nickel. Poison IVY Fragrance Mix</p>	<p>سجوع</p> <p>Neomycin ✓ Bacitracin ✓ Topical CS ✓ Thimerosal</p>	<p>سجوع</p> <p>Gold chromate Cobalt</p> <p>Palmer of para paraphenylenediamine formaldehyde Rubber</p>
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Top 10 Allergens Identified by NACOG

Note

metals (1,6,10)

Sensitizers (3,7,8)

Topical Antibiotics (2,9)

Fragrances (3,4)

① Nickel

② Neomycin

③ Balsam of Peru

④ Fragrance mix.

⑤ Thimerosal

⑥ Gold

⑦ Quaternium 15

⑧ Formaldehyde

⑨ Bacitracin

⑩ Cobalt

حاجات
Poison Ivy
Chromite
Rubber
CS

الأشهر
المجد - المعلق
المحفقات
Commonest
in Female

Nickel	<p>*It and Poison Ivy are the commonest allergens at all (شفوي)</p> <p>يمكن بيبقي موجود في:</p> <p>① الأكل: الاسياجيتي المعلق - الفول المعلق - والخضروات والفواكه المعلقة - بيوتونيوم - البين - رشي - (نوك) - الحجار - (نور) - (سبانغ) - الشيكولاتة (المعادن: زي)</p> <p>*الحلق (لوكان فالصو اودهب بس الكليس نيكل) earrings</p> <p>*العقد (الرقبة) neck lace</p> <p>*زرار الجينز (jeans stud)</p> <p>*خرامة الاذن</p> <p>*العملات المعدنية (حساسية علي الجاد اللي تحت الجيب)</p> <p>*سماعة اليد (مغصمها او الاطار) hand watch</p> <p><u>Commonest sites of nickel ACD</u></p> <p>*Ear lobes....from earrings or piercing by nickel material.</p> <p>*Neck....necklaces</p> <p>*Wrist....watch strap</p> <p>*Lower abdomen....jeans button or stud</p> <p>*Hand....pompholyx</p> <p>لاحظ: عشان تمنع حساسية فتحة الاذن مكان الحلق:</p> <p>1- استعمال خرامة اذن من الاستانليس وليس من النيكل.</p> <p>2- ممنوع استعمال الحلقان الفالصو</p> <p>3- لازم كلييس الحلق الذهب يكون خالي من النيكل (دهب او قصدير).</p> <p>ملحوظة: الاكلات التي لا يوجد بها نيكل:</p> <p>السك - البن - البيض - اللحم - البط - القهوة - الخضروات</p> <p>و الفواكه الطازجة</p>
Neomycin & Cs Bacitracin	<p>- Topical antibiotic used in skin, eye, ear and piles preparations, alone or with bacitracin, Cs, or antifungal eg. <u>Kenacomb cream</u>.</p> <p>- Crossreaction with bacitracin, gentamycin, streptomycin may occur.</p>
Balsam of Peru النقائل المحفقات	<p>Naturally occurring fragrance used in: Some scented cosmetics, spices and suppositories.</p> <p>نشوفها في المرضي اللي عندهم حساسية من الطماطم - الموالح - القرفة - cinnamon - القرنفل - الثوم - الخمرة - السجائر.</p>
Fragrance mix. عطر - حذا عبر	<p>- Most common cause of <u>allergy to cosmetics</u></p> <p>- Uses: <u>To give pleasant odor (مكسبات رائحة)</u></p> <p><u>To mask unpleasant odor:</u></p> <p>عشان كده بيبقي موجودة في المستحضرات المكتوب عليها (unscented).</p> <p>- So use fragrance free preparations</p>

مع انبجات

مضيل شي

اولا

<p>Thimerosal</p> <p>مادة حافظة</p> <p>محلول العدسات</p> <p>التطعيمات</p>	<p>NB: allergy to cosmetics may be due to: fragrance mix, preservatives (Q.15, dyes and lanoline).</p> <p>Preservative material used in:</p> <p>1 Vaccines</p> <p>2 Contact solutions</p> <p>3 Ophthalmic and ID testing solutions</p> <p>4 Antiseptics and cosmetics</p> <p>(لو واحد بياخد مستحضر للعين او الاذن وحصلتله حساسية منه؟ ايه ممكن يكون السبب) (2)</p>
<p>Gold</p> <p>"الكثير لو عموما يستعمله"</p> <p>"في الاسنان"</p>	<p>* Inert material used in jewelry, dentistry, electronics</p> <p>* Rarely considered as a cause of <u>Jewellery dermatitis</u> but this common if the patient is wearing <u>dental gold</u></p> <p>* presentation: - hand, facial and eyelid dermatitis</p> <p>- Oral lichenoid eruption</p>
<p>Formaldehyde</p> <p>(colorless gas)</p>	<p>Colorless gas used in: Shampoo, cosmetics, newsprint, deodorant, smoke, car exhaust and clothing (يخلتها تشنّب)</p> <p>wash and wear antiwrinkles</p>
<p>Quatrineum 15</p> <p>مضاد حيوي - مضاد للفطريات</p>	<p>Preservative with antibacterial and antifungal properties.</p> <p>- used in shampoos, moisturizers, soaps and cosmetics (commonest preservative)</p>
<p>Cobalt</p> <p>الحلقات</p> <p>الغنا</p> <p>الطوب</p> <p>صناعات الخزف</p> <p>السيراميك</p>	<p>معادن يخلط مع المعادن الاخرى لاعطائها الصلابة والقوة وخصوصا النيكل والكروميوم وده اللي بيخلي المريض الواحد دائما حساس للتلانة معا.</p> <p>Uses: Jewelry, dental plates, prostheses, polish stripper, hair dyes, ceramic, enamel</p> <p>NB: Patch test to it may produce specific reaction called <u>Poral</u> which is erythematous violaceous dots not due to cobalt allergy but due to allergens residing in acrosyringia.</p>
<p>Bacitracin</p>	<p>As neomycin. Cross reaction with neomycin may occur.</p> <p>NB: rarely cause anaphylaxis or contact urticaria.</p>
<p>Corticosteroids</p> <p>type I, IV hypersensit</p>	<p>May cause <u>ACD</u> suspected by failure of response or worsening; may be + d.t (CS) if d.t preservatives</p> <p>4 classes of Cs are known:</p> <p>A. Hydrocortisone and tixocortol group</p> <p>B. Triamcinolone acetinoid and budesonide group</p> <p>C. Betamethasone group</p> <p>D. Hydrocortisone 17 butyrate.</p> <p>Tixocortol and budesonide are best used as screening to ACD to Cs.</p>
<p>Paraphenylenediamine</p>	<p>الحنة - الصبغات</p>

Epoxy resin	→ dental filling
	<u>Other common allergens</u>
Plant allergens	Primula, Poison Ivy, Tulip bulbs, Onion & Garlic. ← Poison ivy: (نبات يشبه اللولب) Is The classic example of acute ACD in North America. ACD from poison ivy is characterized by linear streaks of acute dermatitis that develop where plant parts have been in direct contact with the skin (مهم)
Plant photo-toxins	Parsnip, celery, parsley, fennel, orange. البرسيمان
Chromate ← في الأشخاص المرضى بالبهاك Commonest in Men	Cement (مهم شقوي), leather, bleaches, matches, tattoos. NB1: it is of less problem in enlightened countries that insist to add ferrous sulphate to cement to produce water soluble chromate content. NB2: cement may cause ACD in hidden body areas through its dust or vapour.
← الحكة السودا → Paraphenylenediamine	<u>Coloring agent in:</u> → Hair dyes → Henna (عشبان يعطيها اللون الغامق) → Textiles. خلي بالك كمان بتبقى موجودة في مادة حشو الاسنان فممكن تعمل: lichenoid drug eruption in mouth. NB: what are other complications of henna?
Ethylenediamine	Preservative in creams, paints, rubber, antifreeze.
← Topical medications	<u>Antibiotics</u> : Neomycin, quinoline, chloramphenicol, creams. <u>Antihistamines</u> : Antazoline. Anaesthetics: Benzocaine.
Colophony	Sticking plaster, solder flux, polish, varnishes. (الحساسية من البلاستر)
Parabens	Preservatives in cosmetics and creams.
Epoxy resins	Glues, surface coatings, PVC products.
Thiurams	Rubber, fungicides, hair dye, stockings, clothing dyes.
Rubber ← الجوانتي	→ Rubber dermatitis is due to <u>accelerators</u> , <u>antioxidants</u> and other <u>chemicals</u> used in manufacture of rubber rather than rubber itself. <u>Sources are</u> : car tyres, <u>gloves</u> , <u>adhesive tapes</u> and <u>shoes</u> . Rubber latex currently is the most important source of allergic contact urticaria (see Latex Allergy). The term hypoallergenic may refer to gloves that do not contain sensitizing chemicals added to rubber latex but may not indicate whether the gloves are rubber latex free. Some individuals may have <u>delayed specific contact sensitivity</u> to rubber latex, but contact urticaria to rubber latex is much more common than allergic contact dermatitis to latex.

C. Regional ACD

والتي عنه + الحساسية
Allergens
كله الحساسية

Region

possible Cause of ACD

Scalp

relatively resistant to ACD but it may occur d.t.:

- hair dyes
- Shampoos

- Hair sprays
- Hair straighteners (الجلات)

fragrance mix

دائما ما يحصل في scalp ولكن على الأذن والوجي < Scalp + postauricular & Neck

Face

- In general; CD of Face may be:

1- ACD → Face Creams, Powders, shaving lotions

2- Airborne ACD → ACD involving sun ~~exposed~~ & protected areas (Eyelid - postauricular & below chin) → البص على

3- Photoallergic CD → as (2) but differentiated from it by sparing of sunprotected areas.
 كله مفره للشمس

4- Irritant CD → Subclinical ICD may be d.t. some cosmetics.

CIP → burning, stinging, or Contact urticaria

تشنج
كثير
فوقه
التهاب

DD ACD

Ear

- Rim & postauricular → دائما حاجة اتطبع على scalp وجملت ACD (الجلات) - التهاب

- Lobule → Nickle ACD (earrings / piercing) (قلعة / قرعة)

- EA. Canal → استعمال نقطة للأذن للعلاج تحوى على Thiminasal أو Neomycin or bacitracin

Eye lid (عين)

• Unilat → ACD
• Bilat → AD
• Recurrent seborrhea

1. Nail Polish: Commonest site of Nail Polish ACD is Eye-lid dermatitis (unilat).

2. Mascara

3. Fragrances.

4. False Eye Lash Adhesive.

Lips & Perioral

• Lips ACD:

↳ Lip sticks
↳ Tooth paste
↳ Nail polish.

• Perioral ACD:

↓
Extension from Lip CD.

• Lips & perioral

↳ Citrus Fruits & Mango → phototoxic
↳ Lip & perioral Dermatitis.

الموالح

Neck:

الرقبة

1. Perfumes → ACD or phototoxic.

2. Nickel → of Clasps of Necklaces (سلاسل)

3. Textiles → collar like dermatitis or "Neck side dermatitis".
(عرقه - نسج)

4. Air borne ACD: so ACD in this case is sharply limited by collars.

Trunk

→ Uncommon site of ACD

• Axillary ACD may be d.t.

① Axillary Vault → deodorant (Apex)

② Axillary folds → clothing dye.

• brassieres may cause ACD from:

↳ Material itself ↳ Elastic & metal Snaps.

Abdomen

1. Waist line: "Rubber dermatitis" from Elastic in pants & undergarments. (عصابة الخصر)

2. periumbilical: Nickel in Jeans Button or Stud.

Griion

1. Griion → usually spared.
2. buttocks & upper thighs: clothing dyes بيرة كير
3. Penis:
 - poison Ivy
 - Condom ✓
 - Transmitted by fingers (2) ويفرسل باليد (2) لوج
4. Vulvae: (50%) of pruritus vulvae is not ACD
From: medicaments, fragrances & preservatives
5. Perianal:
 - Medicaments علاجات
 - Caine
 - Neomycin
 - Cleansers: contain preservatives

Upper limb

Wrist {

- Nickel: الحديد
- Chromes leather wrist bands. كروم

Hands:

Site ±

- ↳ Dorsum
- ↳ Palms
- ↳ Ring site
- ↳ Web spaces
- ↳ Finger tips

Allergens

- ↳ Florists
- ↳ Nickel, chrom
- ↳ Rubber
- ↳ Poison Ivy

Pattern: may be

- ↳ Pompholyx like (لويك كينيك)
- ↳ Nummular
- ↳ Streaks

L.L

1. Shins: "Rubber" From Elastic stockings أربط الشرايين
2. Feet: v. Rubber
(shoe dermatitis) v. chrome tanned leather dyes
• Adhesives
 - ↳ Antibiotics & moisturizers applied to stasis D.

cast →

Location	Suspicious Agent
Eyelids	Nail polish, eye makeup, airborne allergens
Earlobes or neck	Metal jewelry
Forehead, scalp margins	Hair dyes
Face	Cosmetic fragrances and preservatives, airborne allergens
Axilla →	<u>Deodorants</u>
Hands	<u>Gloves</u> , occupational contacts
Waistband	Elastic
Dorsal feet	Shoes

• Invs. of ACD

- A. Patch Test
- B. Photopatch test
- C. ROAT test
- D. Dimethyl-gloxime test

E. Histopathology

↓
Sec
(ECZ.)

A. Patch test "Type"

- def. 1/2h
- Types 24-48h
- Methodology 7-21d
- Results.

def.: special test used to detect Hypersensitivity to a specific substance (Allergen) that is in contact with the skin so that the allergen may be determined & corrective measures taken.

Types

TRUE test [standard screening Test]

Finn Chambers test

(thin Layer Rapid use Epicutaneous test)

(Individually prepared Aluminium Chamber mounted on Scanpor Tape)

prepackaged Allergens

Allergens come in multi-system syringe & placed into Finn chambers mounted on Scanpor Tape

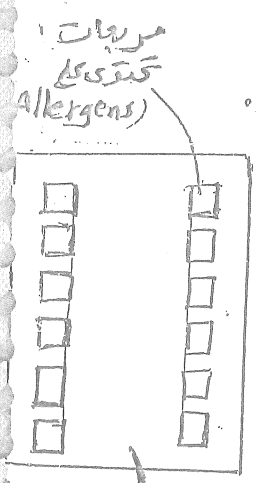
No. of Allergens (23) (there is one control w accounts for the 24th spot) →

allows Testing for (50+) Allergens (Expanded Series of Allergens

➤ TRUE Test).

(Ag 23) لا
مقابلته في نازله
مكة يكثر
لو فيه
الحساسية

يعني باختصار



TRUE test :

مريض بأكبر كيار كل واحد يحتوي على
12 مربع صغير يخطوا على Allergens
المواد للكشف عنه خاصة لديهم
وعلى شانه بيشرى جاهز فوري للاستخدام
ولكنه عدد المواد (Allergens) الموجودة فيه صغير (23)
(pre packed Allergens)

Finn Chambers Test :-

يتم اختيار Allergens المراد اختبارها
في سرجات ثم يتم وضعها في حجرات من البلاستيك (لانه قابل
مشتبة على بلاستر وتوضع على الظفر (Scan por tape).
يتم اختيار عدد كبير من Allergens أكثر من TRUE test
(Expanded Series Allergens ≥ 50)

NACDG
Series

or

European Standard
Series

وغالبا كل بلاستر بيني ولزوق عليه حوالي 12 حجرة تحتوي على 12 Allergen

(So) if TRUE Test is

-ve

Finn chamber test

(يعني لو الـ 23 مادة طلعوا إيجابية بنيت عن مواد
أخرى إيجابية في Finn test)

Methodology:-

احضره

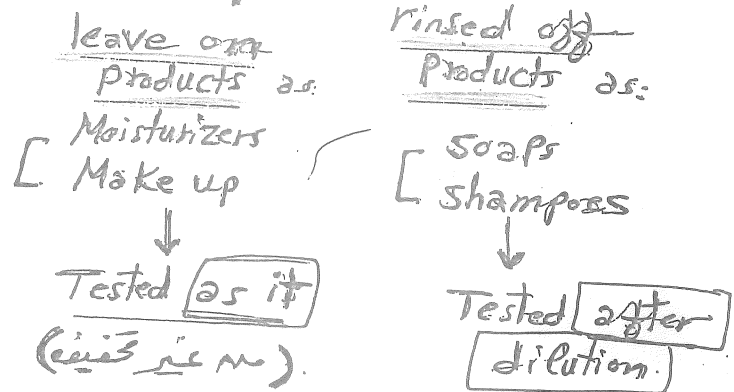
1. Ask the patient To bring all his own materials for testing:-

يطلب المريض جلب كل المواد التي يتعامل معها في البيت أو المستشفى
علشان تعرف مكوناتها وتكشف على "Allergen" الجيب للكاسية

→ Bring or send all chemicals for Testing (1w) before the 1st appointment
ابقد المقل قبل
باسبوع

→ only small amounts required (few drops or grains)

then these products are classified as:-



وبعد ما تعرف المادة لفغالة في كل منتج يتعامل معه المريض
بتخفيفه بـ Petrolatum (بتكرير صغيره في كل مادة)

وكدة يبقى حضرتنا المادة المراد اختبارها
في Finn chambers

احتياطات
قبل وبعد

2. Precautions:-

قبل ما نلزمه Patch

Avoid back Exposure for Sun (4ws) before Testing
Avoid (CS) at least 1-2 ws before testing (>15mg prednis.)

بعد ما نلزمه البلاستر

(No) Swimming, bath or Exercise → مكنه بلاستر
نظف

Arrange for someone to remark the test sites with "indelible" felt tip Marker

ارسم حوله علامة
في مكان ما يتكرر عليه مكانه

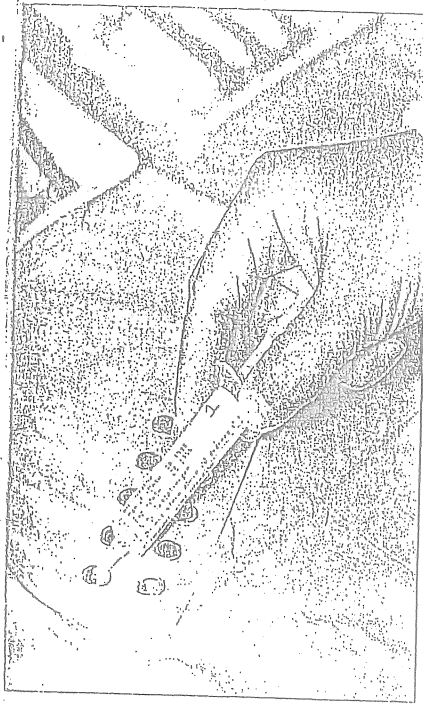


Fig. 15.11 Allergens contained within syringes being placed by nurse into Finn chambers.

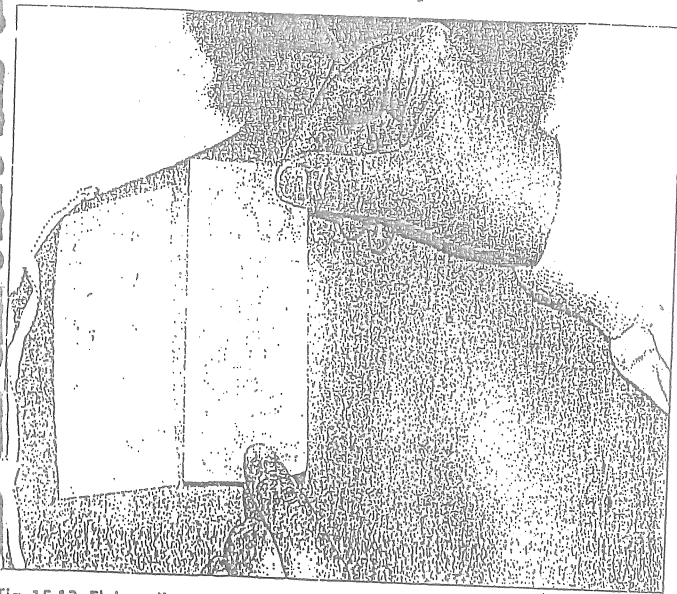


Fig. 15.12 Fixing allergens to patient's back using Scanpor® tape.

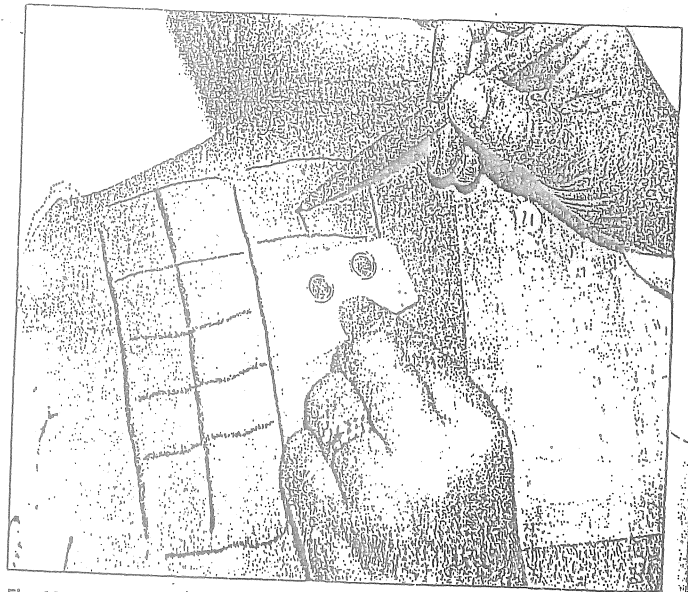


Fig. 15.14 Allergens being marked upon removal of Scanpor® tape.

3 - Reading:

- The patient returns after 2 ds (48 hrs)

ويتأكد من ان البلاستر ليس له لآثاره
كوديس (مجلات Finn يتبع عامله علامات
على الجلد)

① Patch is removed & Readings are taken:-

② Readings taken at:

① 1st Reading → . 48 hrs after application (عزل المريض)

② 2nd Reading → . 3 - 7 ds (after applcate) (Why)

→ Some allergens as Gold & Neomycin dyes may be delayed.

بأخذ قرائتين:
وقت الفحص 2ds
بعد لفك البلاستر 1st
الأسبوع

النتيجة

Results:-

(According to International Grading System for patch test)

- ① (-) → Negative reaction
- ② (IR) → Irritant reaction (Sweat rash, follicular pustules, burn like reaction) (ICD)
- ③ (+/-) (doubtful) → Faint macular Erythema
- ④ (+) (Weak +ve) → Non Vesicular reaction only (Erythema, papules, infiltrate)
- ⑤ (++) (Strong +ve) → as (+) but there is Vesiculation
- ⑥ (+++) (Extremely +ve) → Spreading bullae or ulcer.

note Q

MB: Angry back Syndrome = Excited skin synd.

Def.: state of Hyper excitability ch By False +ve reactions (the -ve Tests appears weakly +ve) it may be d.t.

AET: 1 Active dermatitis at time of patch testing or

hypoallergenic Plaster
البلاستر
تقوية

2 strong +ve reaction -> induce Local skin hyperreactivity in areas where patches are applied.

Management: retesting the patient Sequentially to small series of these Allergens.

لو كان لبي
رقم
لو كان لبي
رقم

of Active Dermatitis.

B- photopatch test = (for D of...)

This test used for evaluation of photoallergic CD

- To such substances as:
- Sulfonamides
 - Phenothiazines
 - PABA
 - Oxybenzone
- in Sun Blocks

احذر
على مكانين

these: Chemicals are applied in duplicate Sets.

استخدم

one set: receives 10 J/cm² (or 1 J/cm² less than MED to UVA)

other set: the other series protected from UVA

التجربة
(الأسفل)

- (i). +ve Reaction on Both sides -> ACD
- (ii). +ve " at UVA exposed side only -> PACE

C-ROAT Test

اجري على
اليدى مثلاً

(Repeat Open Application Test)

Indications: (1) -ve patch test despite there is strong suspicion of ACD.

(2) Weak +ve patch test (specially for leave on consumer products)

Ref.
Secrets

(remember that: patch test is one time occlusive test that doesn't duplicate low level chr. daily Exposure)

← هاجيب. مادة دى (الموجودة مثلاً في مطبخ) ويتم استعمالها مرتين
يومياً على جانب لرقبة - قلب (أذن) - أو على الذراع لمحاكاة (موقع) أرم
لمرضى ← ACD ← "the weak patch test is highly Relevant"

D. Dimethyl/gloxime test

def useful & practical way to Identify Metallic objects that contain enough Nickel to provoke ACD to Nickel.

① يمكن دكتور الجلدية عمله في إحصارة أو طرفين لـ Kits
ويجعله في البيت.

② توضع نقاط بسيطة من هذه المادة على قطعة أدمانية ويتم تدليكها بالأشياء المراد الكشف
عنها لنيتل فيها. في خلال ثوانى لو تحول لونه لـ أحمر إلى أصفر ← +ve For Nickel -

Treatment of ACD

✓ ① Remove the Allergen xx

✓ ② Treat the Eczema كالأزمة

إلتهاب الجلد Irritant CD (ICD)

def. Cutaneous inflammatory disorder resulting from direct cytotoxic effect of chemical (+) physical Agent. (Non Immunologically mediated).

Epidemiology :-

- Represent (80%) of cases of CD
- represent (80%) of occupational skin disorders مصابين
بمرض
الجلد

Pathogenesis: → 3 main pathophysiological changes:

- Cytotoxic + 2D disrupt denot.
- ①. Skin barrier disruption → ↑TEWL
 - ②. Epidermal cellular changes.
e.g Keratin denaturation.
 - ③. Cytotoxicity: release of $\left\{ \begin{matrix} TNF\alpha \\ IL6 \\ IL1\beta \end{matrix} \right\} \rightarrow$ cytotoxicity

ICD has 2 phases: (HL)



① Penetration by the irritant Agent produces 3 changes (إلتهاب)

② damage to Stratum Corneum lipids (at mediate St. Corneum barrier function)

The Most important cytokines are:-

- $\left\{ \begin{matrix} TNF\alpha \\ IL6 \\ IL1\beta \\ IL8 \end{matrix} \right\} \rightarrow$ upregulate Expression of ICAM-1

- ①. loss of Kcs cohesion → desquamation
- ②. ↑TEWL

Causes of ICD :-

- Almost any material can cause ICD if there is sufficient Exposure both in
- ① Time & Concentration. ②

→ Most Common irritants are:

IRRITANTS AND MECHANISMS OF TOXICITY	
Irritant	Mechanisms of toxicity
Detergents	Solubilization and/or disruption of barrier lipids and natural moisturizing factors in the stratum corneum Protein denaturation Membrane toxicity
Acids	Protein denaturation Cytotoxicity
Alkalis	Barrier lipid denaturation Cytotoxicity through cellular swelling
Dis	Disorganization of barrier lipids
Organic solvents	Solubilization of membrane lipids Membrane toxicity
Oxidants	Cytotoxicity
Reducing agents	Keratolysis
Water	If barrier is disrupted, cytotoxicity through swelling of viable epidermal cells

Table 16.2 Irritants and mechanisms of toxicity.

- Acids
- Alkalies
- Detergents
- Disinfectants
- Solvents
- Plastics
- Fabrics
- Water

- Bodily Fluids:
 - Saline urine feces
 - diaper D.
 - lip licking
 - Fernest III
 - Periwinkle ICD
 - Food & its additive

الزئبق

Hydrofluoric
Sulfuric acid

NaOH
في مزيلات البقع
وأظفار الجير
البترية والجاذبة

Cement

الأسمنت يمكن يجعل شقوق

① ACD : d.t chromate

② ICD : d.t its Alkalinity

2 Types:

Acute delayed

بجمل بعد ٨-٢٤ ساعة

Cumulative

بجمل بعد
١٠-٢٠ يوم
من التعرض
المستمر

المرضى بـ شقوق
طول عمره
في الأسمنت ولها
دما محله ٢٤

3. Both : ACD & ICD (ACD may accompany Cumulative ICD)

CLP of ICD

As General picture of

→ Eczematous

→ Non Eczematous

- ✓ Burning Sensation
- Chemical Burn like.

- Pustular ✓
- Aciciform ✓
- folliculitis ✓
- Xerotic ✓

① Acute →

② Subacute →

③ Chronic →

Types of ICD:

3 ←
Subclinical
(Subjective)
3 ←

- Acute Immediate
- Acute delayed
- Chr. Cumulative
- ③ Irritant React - ICD
- ③ pustular & Aciciform
- non Erythematous (Subclinical)
- Subjective + Sens.
- Atrophic
- Traumatic
- frictional
- Air borne

1- Acute Immediate ICD (minutes-Hours)

حساسية
فورية

Strong irritant
[short period

2- Acute delayed ICD: (8 - 24 hrs)

حساسية
متأخرة

e.g anthralin

3- Cumulative ICD: (chr. ICD). [weak irritants
Repeated Application

نفسه
①

occurs as a consequence of multiple subthreshold
skin insults without ② sufficient time bet.
the m for complete barrier function repair.

→ Cumulative ICD^{then} develops (e) subsequent exposures (or) when i threshold of irritants is ↓↓ e.g. AD.

④ Pustular or Acneiform [Folliculitis]

e.g. mineral oils, tar

١٠ - البوصلة
الصغيرة.

⑤ Non Erythematous ICD: Pathological ICD

بسم الله الرحمن الرحيم
الحمد لله رب العالمين
والصلاة والسلام على
سيدنا محمد وآله الطيبين
الطاهرين

⑥ Subjective (Sensory): → only stinging / burning (Not clinical)

sub-clinical

⑦ Air borne ICD: جداره جوی

(8) Frictional ICD: d.t repeated frictional Trauma

⑨ Traumatic N : Irritant is applied over sites of Trauma e.g. Burns & Laceration

⑩ A static ICD: [see Xerotic EcZ.] ✓

(11) irritant reaction ICD = subclinical (12) wet chemical environment (hair dresser)

(Handwritten signature)

Sharp outline

extend beyond site

TABLE-1: COMPARISON OF IRRITANT AND ALLERGIC CONTACT DERMATITIS		
	Irritant (8%)	Allergic (2%)
Examples	Water, soap	Nickel, fragrance, hair dye
Number of compounds	Many	Fewer
Distribution of reaction	Localized	May spread beyond area of maximal contact and become generalized
Concentration of agent needed to elicit reaction	High	Can be minute
Time course	Immediate to late	Sensitization in 2 weeks; elicitation takes 24-72 h
Immunology	Non-specific	Specific type IV delayed hypersensitivity reaction
Diagnostic test	None	Patch test
Incid:	More Common	less Common
C/P:	stinging or Burning حرقان	Itching هرس
prognoses	Better	Bad →

```

graph TD
    A[Agents] --> B[No]
    A --> C[Conc.]
  
```

Mechanics

Incid
Mech.
Agents

- [-] Clp-
[-] Prognosis

• Diagnosis of ICD : No specific test; Diagnosis of exclusion; when Dermatitis can't be explained by -ve patch test to a known allergen.

Photo Contact Dermatitis.

دارة
DNNZ

def. Allergic or Toxic reactions occurs When certain chemicals are applied to the skin & subsequently Exposed to sun.

المراد و هو. (Topical Agent + UVR → photoContact dermatitis)
(photosensitizers)

Pathogenesis: see drug induced photosensitivity (Exogenous photoreactions or dermatoses).

Examples:-

1- Sunscreen:-

- Salicylates
- PABA
- Benzophenones
- Musk

2- Fragrances:

- Musk

3- Others:-

- SFU
- Tar
- Psoralens
- sulfa
- Cadmium

Topical Agent
(photosensitizer)

+

UVA
(320-400 nm)

لوهو
فانما

also UVB & Visible Light (any light length 280-600 nm)

photoContact
Dermatitis

1-3 ds min-hrs

شاي
للقرق بين ثوبين
Sec light &
skin-

Photo. ACD

Photo. ICD (phototoxic CD)

ECZematous Eruption
(No Post-Hyperpig.)

sunburn like Erupt. (with PIH post Hyperpig)

(on areas Where the drug applied & UVR Exposure).

photoContact D:
photoAll. غالباً نوعه
"photosensitizers"
Topical → photoallergic CD
systemic → photoallergic & phototoxic

للقا نالته

See
Photoreact

NB Examples of phototoxic dermatitis:-

① Phytophotodermatitis:

- Contact \bar{e} plants containing phototoxic substances + UVR \rightarrow Reaction
- \rightarrow CIP: streaky or bizarre pattern
- \rightarrow The most common plants are those of the Umbelliferae family (Parsnip, Celery, Parsley, Hogweed)

Better classified as phytophotodermatitis rather than photoD.

② Berloque (Berlock) Dermatitis:-

(Berlock = Thickening or charring)

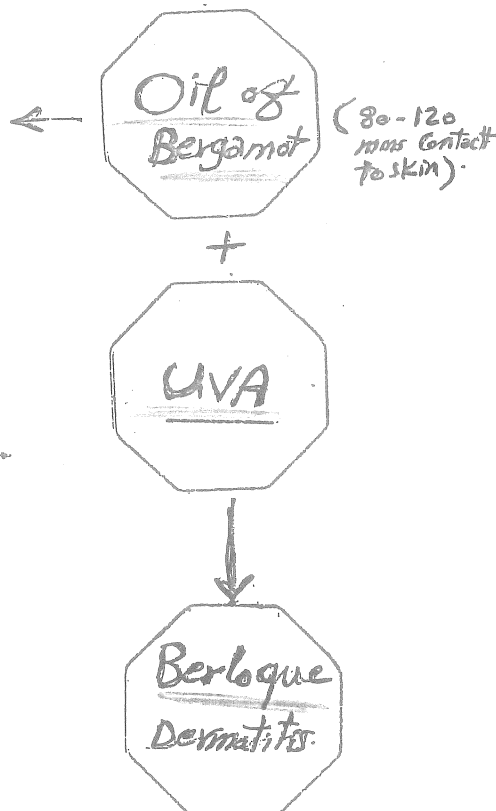
def: phototoxic reaction d/t contact with plants containing Oil of Bergamot + UVA Exposure.

the photoactive component is:-

Bergapten (or 5-MOP)

Source:

- Bergamot lime plant (شجر الليمون والحامض)
- Perfumes
- Fragrances
- Cosmetics (ليك، كريم)
- Toiletries
- After shave lot.
- Colognes (كولونيا)
- Sunscreens
- Moisturizers
- Soap . Detergents
- Air Freshness



Mid-late summer
الوقت بين الصيف
البحر قديم
وقته الحار

"Citrus food"

CIP \rightarrow 2 phases:
 \rightarrow Acute inflammation
 \rightarrow Hyperpigmentation

سواء

1. Initial acute inflammatory phase: after 24 hrs

Pattern of lesions:

Pendant like

or drop like

• Erythema

• Edema

• Vesiculation

• Pain (not pruritic)

→ Bizarre Config.

2. 2nd phase: → Hyperpigmentation (Chief Complaint after 1-2 wks.)

- Site: any site where perfume is applied & UVA Exposure. e.g. sides of Neck, arms, Trunk.

NB: - usually → No acute inflammatory phase & the presentation is only dt Hyperpigment.

- duration of: Acute phase → ds - wks

Hyperpigment II → ms - yrs

• Invs ① photopatch test (see photosensitivity)

② pathology (HIP)

• Treatment: -

Emollient
Bleaching Cr

1. Avoid all preparations containing oil of Bergamot

2. Acute phase → Antiseptic lot Wet Compresses + Analgesics + Sunscreen

3. Hyperpigmentation (self limiting but after long period)

Hydroquinone

Trinitrophenol

Dexamethasone

Ethanol

Propylene glycol

- Sunscreen

- Hydroquinone 2% (1x2)

- Kligman's formula (??) ~ low pH

→ Ellagic acid: Naturally existing polyphenol That - Tyrosinase by copper chelation

2126

Exogenous ECZema

Dermatophytide → see fungal inf.

ECZematous PMLE → see PMLE.

Infective Eczema

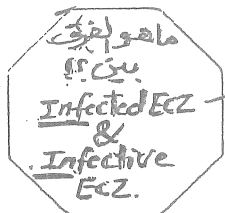
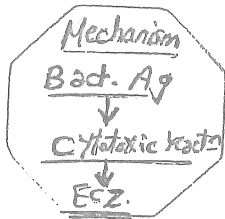
(infective eczematoid dermatitis, microbial eczema)

→ "caused by infection"

def: ECZ. Caused by contact with Microorganisms or Their products & cleared by eradication of the organism.

CIP: - Seen (few cms) from 1ry site of inf.

- Can be seen in:-



ما هو الفرق بين
Infected ECZ &
Infective ECZ.

1- Flexures (in scabies)

2- Scalp & postauricular areas (in Pediculosis & impetigo).

3- around discharging sinuses, wounds & ulcers.

4- Around Molluscum lesions (Molluscum dermatitis)

5- Complicating T. pedis (dit G-Vc bact.)

6- Microbial Feet ECZ: Weeping & Crusted ECZ seen on the dorso-medial aspects of Toes in persons with bad Hygiene or T. pedis.

7- Infective dermatitis in children is HTLV-1:

- Severe Type of ECZ. Seen in Jamaican children in ass. with HTLV-1 usually Generalized & Severe (Scalp, Postauric, Eyelid, Nose Perioral).

- may be an important marker for HTLV-1.

→ Systemic antibiotics Preferred as Topical ones may → CD.

syst AB

Atopic Dermatitis (AD)

def of Atopy: a = No or without
Topy = Topos = place] \rightarrow out of place = غريب
strange = unusual.

Ques → Atopy is an inherited tendency to develop a hypersensitivity response (Allergy) to certain Environmental stimuli (Allergens) is presence of high Immunological profile.

• Atopic dermatitis (AD):-

→ Cut. manifestations of atopic diathesis,
Chr By chr. relapsing, intensity pruritic.
dermatitis ē chic distribution pattern
In Atopic individuals.

* Atopic disorders (or) diatheses are:-


- ⑤
- ✓ Asthma.
 - ✓ AD
 - ✓ Hay fever (Allergic Rhinitis)
 - ✓ Allergic Conjunctivitis
 - ✓ Allergic Gastroenteritis.

" Etiopathogenesis "

- ① Genetic Factors
- ② Immunological Factors.
- ③ External Factors = triggers
- ④ others

- Hygiene theory

- Abnormalities of sweating
- Change in cutaneous lipids
- ↓↓ pruritus threshold
- Change in PDE activity
- Altered vascular and neurocutaneous reactivity

Autosomal 
 p short arm
 q long "

(I) Genetic theory (Factor)

in AD:-

- Autosomal dominant Inheritance (AD) ✓
- If 2 parents are affected by AD: → 80% Incid. of Sibling Affected
- If 1 parent is " by AD: (20-50%) 60% Incid.

Xerosis
 ± ASS
 ± Ichthyosis
 Vulgaris.
 غافة
 غافة

Defective filaggrin Gene (FGL)

Defective barrier → ↑ TEWL

Trans epid water loss

(20-50%) 60% Incid. on 19123 → chromosome long arm segment

II. other Factors

والذين يعانون من الحساسية
 أيضا ابن الحساسية
 - النفيرين

(i) Hygiene theory: ↑ Exposure to Infectious Agents during early life → ++ Th1 to be potent

Th2 → ↓ Incid. of AD.

↑ العرق

(ii) Abnormalities of Sweating: in Atopics → ↑ sensitivity of Glands to Catecholamines → ↑ Sweating → taken up by st. Corneum → gland obstruct. → Sweat Retention → gland Rupture → diffuse to dermis → Itching.

cut lipid

(iii) Abnormalities in cut. lipids:

↓ Glycerol, Ceramide & Linoleic
 ↑ Epid. lipids.

} All Cause Xerosis.

الرشح

(IV) ↓ pruritus threshold: Early & prolonged experience of itching

(V) Altered Vascular & Neuro cut. Reactivity:-

VC

" Paradoxical VC "



↓

So Atopics have Pallid skin & White Dermatographism.

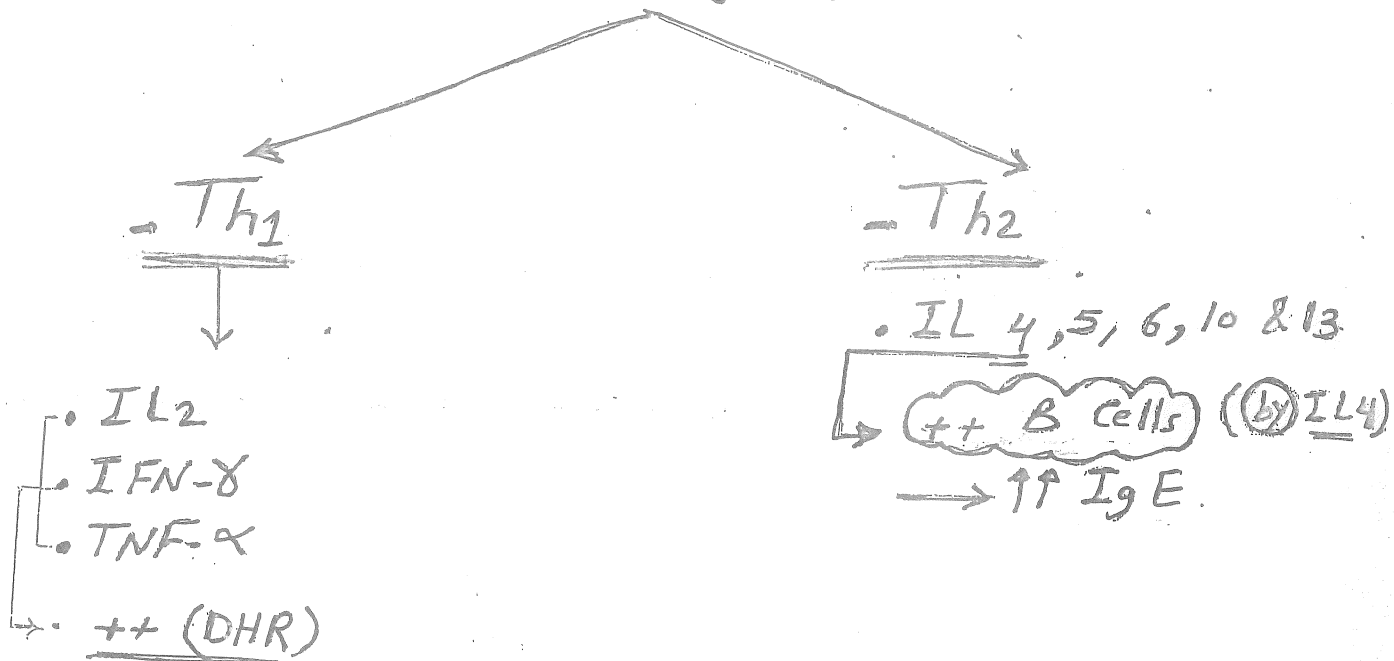
II Immunological factors:

T-cells
Igs
LCS
Eosinophils

12

T-lymphocytes

CD4 or T-helper cells are of
2 subtypes:-



In NL individuals: there is balance between

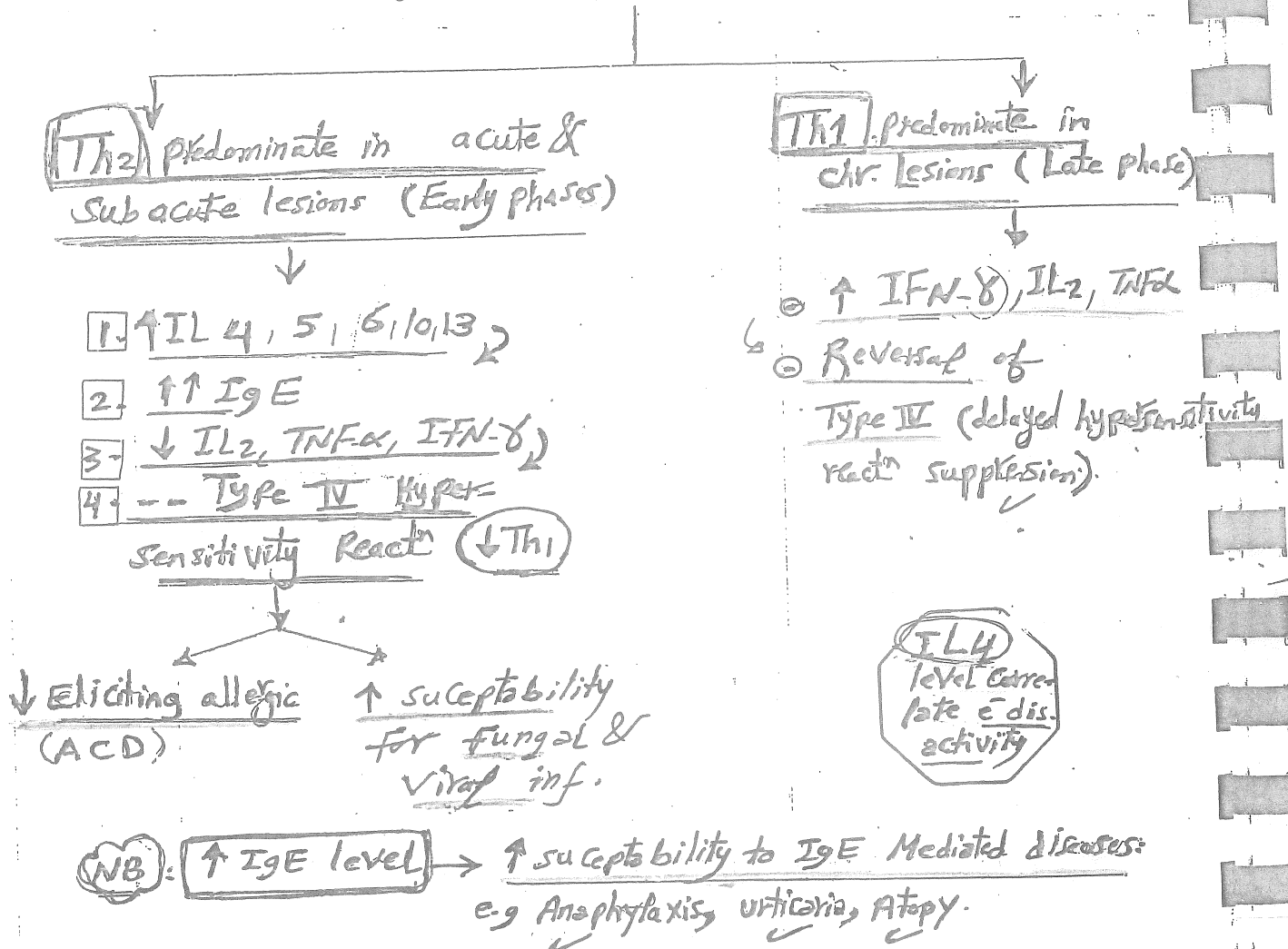
Th₁ & Th₂ → each exert inhibitory action to the other.

In Atopics: → Th₂ predominates in Acute & subacute phases while Th₁ predominates in chronic phase.

So:

The Immunological Profile in Patients of AD is

Biphasic :-



Immunoglobulins

- ① ↑ IgE production.
- ② ↑ IgG1 (ass. e air born allergen Hypersens)
- ③ ↑ IgG4 (ass e Food Hypersensitivity).

NB → ↑ IgE → not always a constant finding (see intrinsic AD)

LCS
(Langerhans cells)

-
- ↑ No
 - ↑ Reactivity
 - ↑ Expression of "FcεR1" of IgE.

e.g. wool

Eosinophils

→ PeripheraL Eosinophilia / Hyperreleasable in response to non Allergens

↑↑

III) Extrinsic factors

1- Irritants & Contacts:
 Solvents
 disinfectants
 Latex
 Nickel

2. Airborne Allergens:
 House dust mites.
 Pollens
 moulds
 Mites.

3. Food (Diet):
 Milk
 Soya products
 Eggs
 Nuts

لبني
 موي
 بيضة
 البندق واللوز

علاقة الأكل ب AD تكمن في الآتي ؟؟

① تؤثر على مجموعة صغيرة من المرضى ومضيقها بالحالات الشديدة.

② الأشخاص الذين ثبتت حساسيتهم من الأكل هم الذين

سوى يستفيدون من وقف هذه الأطعمة.

③ الحافز على أكبر الام وتأثيره ليس إيجابى [تأثيره ضعيف ومقتصر على فئة قليلة فقط].

So food plays a minor Role

④ Microorganisms: ② Common organisms may act as a superantigens → Exacerbate of AD:

→ Staph. aureus ✓
 → Malassezia ✓

Severe AD of Face → Lotrimin or Pivone cr.

Lo in head & Neck Dermatitis Ige to M. furfur can be demonstrated → Good Response to Antimycotic

5. Hormones:
 Preg.
 menopause
 Menses

all Exacerbate AD.

6. Stress: ↑ AD

7. Climate:
 Winter: ↑↑ (more)
 Summer: ↓↓ (less)

Types of AD (Extrinsic & Intrinsic)

	Intrinsic (Non Allergic)	Extrinsic (Allergic)
<u>Incid.</u> <u>Age</u> <u>FH</u> <u>Ass. other Atopic Manif. (diathesis)</u> <u>Mechanism:</u>	<u>Less Common</u> (2%) <u>Late</u> (Adulthood) <u>less</u> +ve <u>Rare</u> <u>Non Immune Mediated.</u>	<u>Common</u> (80%) <u>Early</u> (childhood) <u>strong</u> (+ve) <u>Common</u> ↑ <u>Immune Mediated.</u> (Type I)
<u>Triggers</u> <u>IgE</u> <u>Cytokines:</u> - IL 4 & 13 - IL 5 & IFN γ	<u>No</u> ← Food Aeroallergens <u>Irritants</u> <u>NL</u> <u>No difference</u> ↑↑	<u>Food, Aeroallergens & Irritants.</u> <u>↑↑</u> <u>↑↑</u> <u>No difference.</u>

• Intrinsic:

(NO)

→ Ichthyosis

→ Hyperlinarity

→ FLG →

NL barrier

• Epidemiology: Incid. AD affect (15-20%) of children & (1-2%) of adults.

Age: (85%) of cases appear in 1st year & (95%) appear ≤ 5 Ys.

Sex: M:F = 1:1.4

• CIP → 4 Phases:

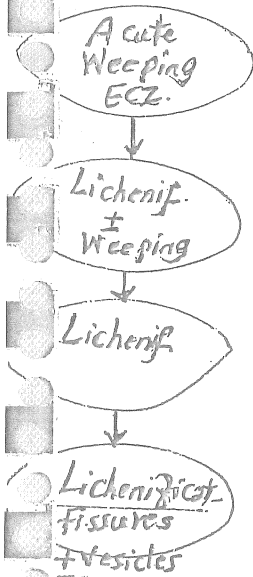
1. Infantile (2ms - 2 Ys)

2. childhood (3y - 11 Ys)

3. Adolescent / Young adult (12 - 20)

4. Adulthood (> 20 Ys)

CIP Age distribute Morphology clearing
(4 phases) →



Atopic dermatitis may present at any age, but 85% of patients experience their first outbreak by their first birthday, and 95% by their fifth. Four clinical phases are recognized:

1. Infants (2 months–2 years)
 - Distribution: Cheeks (Fig. 8-1A), face and scalp, extensor surfaces of extremities (perhaps from crawling), and trunk
 - Morphology: Erythema, papules, vesicles/oozing, and crusting
 - Clearing: Dermatitis clears in half of the patients by 3 years of age
2. Childhood (3–11 years)
 - Distribution: wrists, ankles/backs of the thighs, buttocks and antecubital and popliteal fossae (Fig. 8-1B)
 - Morphology: Chronic, lichenified scaly patches and plaques that may have crusting & oozing (see Fig. 8-1B)
 - Clearing: Two thirds of patients clear by age 6
3. Adolescent/young adult (12–20 years)
 - Distribution: Face, neck, arms, back, and flexures (Fig. 8-1C)
 - Morphology: Thick, dry, lichenified plaques without weeping, crusting, or oozing
 - Clearing: 90% or patients clear by age 18
4. Adult (>20 years)
 - Distribution: Most commonly involves the hands, sometimes the face and neck, and rarely diffuse areas
 - Morphology: Lichenified plaques, fissures on the hands, occasional vesicular outbreaks, one subset of "sensitive skin" patients

50% ←
ليد وناقص
60%
90%

Infantile stage:

- xx - Diaper Area usually spared
- Exacerbation may occur d.t.
 - Emotional stress
 - Teething
 - RTI

NB
• Dermatitis
• < 3ms
• SD
• But > 3ms
→ AD

→ Hipp's Atopic Erythroderma, progression of condition to affect the whole body.

Childhood phase:-

- Fossae < Antecubital Anti popliteal
- This Ecz is a mixture of:

- prurigo of Hebra → Extensor aff pr
- N N Besnier → Flexor aff.

Adulthood phase:

- persistence > 30 yrs → usually in psychotic pt.
- disseminated may occur → disseminated ND.

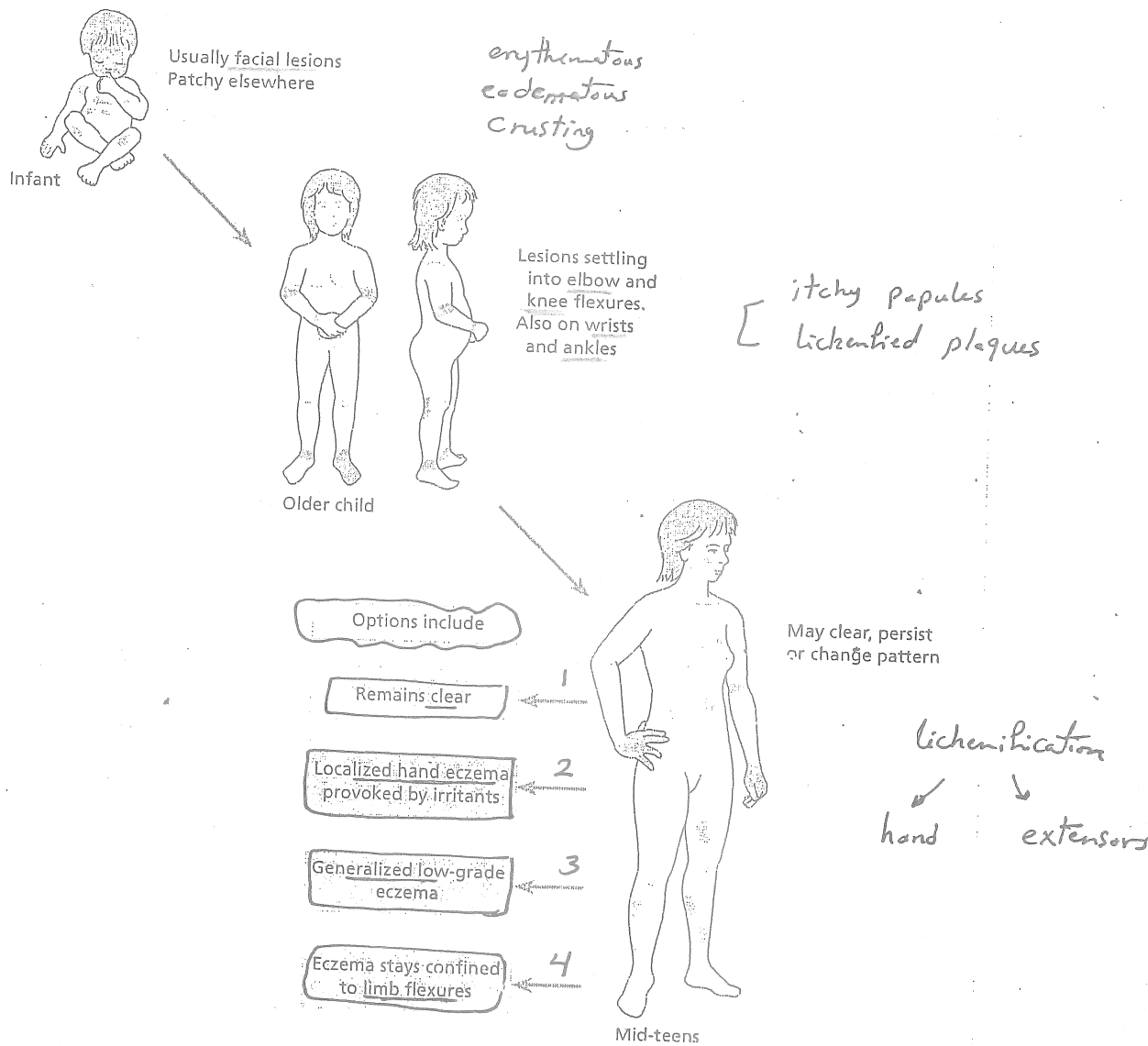


Fig. 7.12 The pattern of atopic eczema varies with age. It may clear at any stage.

Atopic erythroderma :-
 1st few days of life
 adults
 (Un Common)

Diagnostic criteria for AD.

4

2 tables ① Hanifin & Rajka (1980) → the most accepted & widely used.

② American Academy of Dermatology Criteria (2003)

③ Williams Criteria / UK party (2006)

A Hanifin & Rajka

هانيفين
راجكا

A Major Criteria (4)

الآثار الأساسية

Cardinal
Symptoms

1. Pruritus
2. Typical Morphology & distribution < infancy: Facial & extensor involvement
3. chronicity or chr. relapsing course < Adults: Extensor lichenification
4. Personal or family history of Atopy. (+ve) FH

ASSOCIATED FEATURES OF ATOPIC DERMATITIS

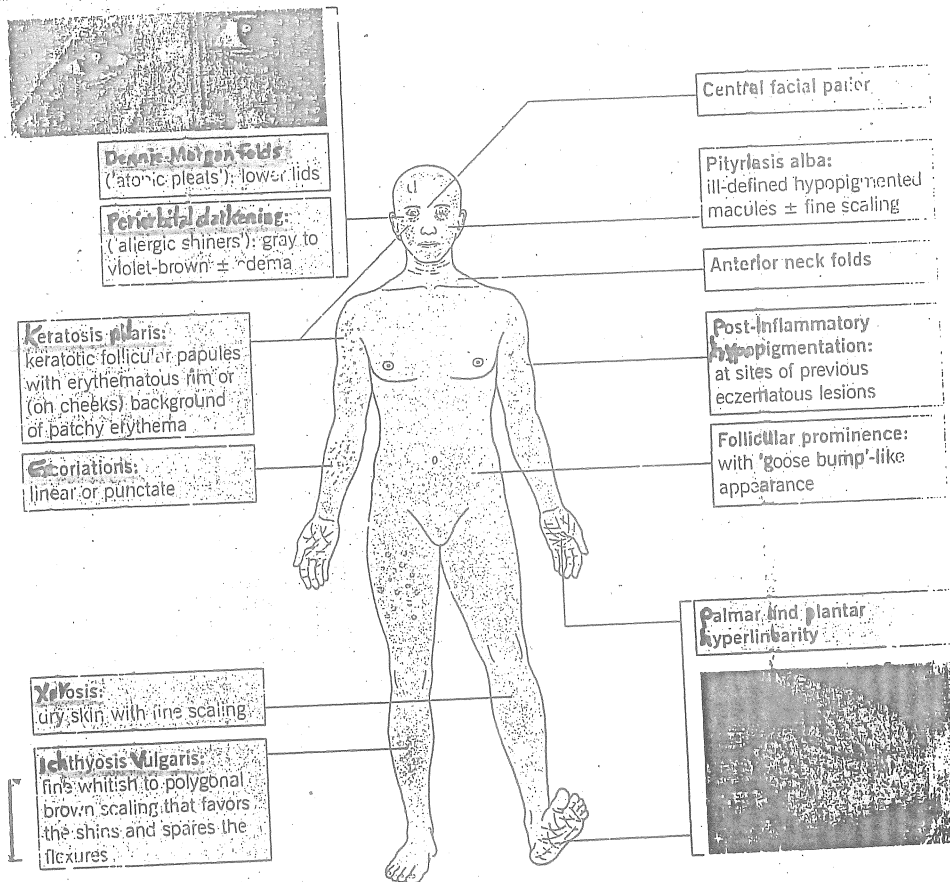


Fig. 10.10 Associated features of atopic dermatitis. inset of hand: Courtesy, Jean L. Bolognia, MD.

B Minor Criteria "23"

- onset: Early < 2m.
- course: Influenced by Environmental & Emotional Factors

- Intolerance to Wool & Lipid Solvents.
- IgE changes (↑ level & Reactivity)
- Associated Features: "3"

for $\mathcal{D} = 3$ Major + 3 Minor

Associated Features

- Cut.
- Eye
- Stigmata.

1- Cutaneous:

- Xerosis
- Ichthyosis (↑ TEWL) due to XX FGL gene
- pit. Alba
- Keratosis pilaris (kp = 40%)
- Reticulate Pigmentation of Neck (dirty Neck)
- periorbital milia
- White Der-matographism
- Cholinergic urticaria ✓

• ↑ susceptibility to Inf < staph. aureus.

2- Eye

- Facial Erythema / pallor
- Perifollicular Accentuation

Hsv EcZema Herpeticum "Itchy"

- Hand EcZema
- Nipple II

- Cataract.
- Kerato Conus.
- Atopic conjunctivitis.

3- Atopic Stigmata: → are permanent (دائم)

• Eye → periorbital HyperPigm. (Allergic shiners)
Dennie - Morgan infra orbital folds (pleats)
Thinning of outer Eye brow (Hertoghe's Sign)

• Nose → Perinasal pallor (Head light Sign)
↑ Nasal creases.

• Hair → low set hair line. كتف ابيض

• Neck → Ant. folds.

• palms → ↑ creases. (HyperLinearity).

B. American Academy of Dermatology: (2003)

I. Essential features (must be present)

(must)

2/3

1. Pruritus

2. Eczema with:

Typical morphology, distribution and age specific pattern:

a. scalp in infants → cheeks ~ 5

important
childhood

b. facial, neck, and extensor involvement in children

c. current or prior flexural lesions in any age group

xx [- d. sparing of groin and axillary regions]

3. Chronicity or chronic relapsing course.

adding support → II. Important features (seen in most cases, adding support to the diagnosis)

(most)

1. Personal or FH of Atopy.

2. Early onset < 2ms.

3. IgE reactivity.

4. Xerosis

help → III. Associated features (nonspecific clinical associations that help in the diagnosis of AD)

→ all ass. features except (See Ass. Features)
 x - Xerosis
 ✓ - Add Vascular changes

1. Atypical vascular responses (eg, facial pallor, white dermographism, delayed blanch response)2. Keratosis pilaris/hyperlinear palms/ichthyosis3. Ocular/periorbital changes4. Other regional findings (eg, perioral changes/periauricular lesions)5. Perifollicular accentuation/lichenification/prurigo lesions

IV. Exclusion criteria: presence of other conditions of Itchy skin e.g. CD & Scabies

- Patients must have an itchy skin condition (or parental report of scratching or rubbing in children)
- Patients also must have 3 or more of the following criteria:
 - History of flexural involvement, e.g. antecubital area, popliteal fossa, fronts of the ankles, or neck
 - Personal history of asthma or hay fever or a history of atopic disease in a first-degree relative in patients <4 y of age
 - History of generally dry skin in the last year
 - Visible flexural dermatitis or dermatitis involving the cheeks or forehead and outer limbs in children <4 y of age
 - Onset younger than age 2 years (not used if child is <4 y)

NBS:

① Other Presentations of AD

- Nummular dermatitis
- Eyelid dermatitis
- Ear dermatitis; post-auricular fissures
- Cheilitis
- Nipple dermatitis
- Facial dermatitis
- Hand dermatitis
- Juvenile plantar dermatosis (Sole)

Dermatitis of:-

- Face
- Eyelid
- Ear, postauric
- Lip
- Nipple
- Hand
- Numbly

② AD Associated diseases & Syndromes:-

(NBS)

A. Ass. diseases:-

- other atopic diathesises (30%)
- Eye → Cataract & Keratoconus
- Ear → OM
- Skin → Ichthyosis
- Vitiligo
- AA
- Geographic tongue

B. Ass. Syndromes:

- Ataxia Telangiectasia (Ataxia + Telangiect. + sinopulm. inf. + Leuk. or lymph.)
- Anhidrotic Ectodermal dysplasia (Ahid. + Alopecia + dental defect)
- AEP (Dermatitis + Diarrhoea + Alopecia)
- PK (↓ pigm. of skin + Hair + Dryness) = pigmentary dilution + Atopy
- Netherton synd. (Ichthyosis + AD + Trich. invaginata + FIT)
- omens synd. (FIT-Ear ↑, ↑ IgE, ↓ IgA + Cut. Ecz. + Syst. L.N. HSM. urine. charac.)
- Hartnup dis. (niacin) + Neuro-psychiatric + AA + ↓ urine. charac.
- Histiocytosis X (niacin) - Wischott Aldriche
- Job Synd. & Hyper-eosinophilic Synd.

3. In atopic dermatitis, which comes first—the itch or the rash?
 No primary skin lesion has ever been established in atopic dermatitis. Hanifin and Rajka suspect that all the cutaneous changes of atopic dermatitis may be due to friction and itch-induced scratching. As Beltrani states, "Atopic dermatitis is an itch, which, when scratched, erupts." If there is no friction or scratching, there is no eruption.

Itch $\xrightarrow[\text{cause}]{\text{which}}$ Rash

What is the
 1st lesion
 of
 AD??

شعور

4. SCORAD Index = Scoring AD:-

A. Extent criteria

B. Intensity

- Erythema
- Edema
- oozing
- Excoriation
- Lichenifications

كل واحد من هذه
 Score له
 من 1-3

C. Subjective symptoms:

- pruritus
- insomnia

$$\text{Total score} = A/5 + 7B/2 + C$$

شعور



Hyper-IgE syndrome (Job's syndrome) occurs in infants and children. It resembles atopic dermatitis but involves particularly the scalp, axillae and groins. The associated features include persistent secondary bacterial infection, fluctuant cold abscesses, contact urticaria, bronchitis and severe lung damage. The key laboratory finding is the great elevation of serum IgE (greater than 2000 i.u / mL) often with some eosinophilia. Neutrophil chemotaxis is impaired.

The hyper-eosinophilic syndrome is a rare disorder, occurring in middle aged males, and characterized by intense blood eosinophilia. There is affection of internal organs (heart, nervous system, Liver, lung and gut). The skin changes include an eruption resembling atopic dermatitis or urticaria, itchy maculopapular eruption or erythroderma.
 • Treatment includes systemic steroids and cytotoxic drugs such as hydroxyurea.

- AD, AR or sporadic
 - Mutated in STAT3 & Tyros. K2
 النقص الفوقاني

- 3 Lab \leftarrow IgE ↑ > 2000 i.u
Neutrophils
Eosinophilia

⑥ AD with Bad Prognosis:-

- Young age
- ♀
- (+ve) FH
- other Manifests of AD (diathesis)
- Persistent Xerosis in old age.

- Complications of AD:- "AP"

1. Impetiginisation & 2nd bact. inf.

2. Folliculitis

Q. إلحاق → 3. ECZema Herpeticum (Kaposi varicelliform Eruption)

4. Ass. diseases & synds.

5. GR: in severe cases > 50% of BSA.

- Investigations

A - Skin prick test

[- Total IgE (RIST)

[- Specific IgE (RAST)

- Eosinophilia; blood, lesions

[- Th2 cytokine profile; IL-4, IL-5, IL-13

[- Reduced Th1 response; interferon- γ , DTH to contact allergens

INF- γ

NBS

1- Dennie Morgan folds:-

- Is d.t. Eyelid Edema & itching → Existence of 2nd & 3rd Palpebral crease.

- (+ve) in → 75% of Atopics
5% of Normals → so of little value in Diagnosis

2- Some authors Considered infraauricular folds & fissures

are diagnostic because they are (+ve) in → 22% of Atopics
33% of NLs.



Management of AD

Q

16

(No Curative Ht)

1- General Measures :

(General Measures)

- Bathing
- Clothes
- Exercise
- Environment / irritants & Contacts : exclusive breastfeeding 4-6 months
- Diet (probiotics - prebiotics) : low allergen diet for mother during breastfeeding.
- Health Care Education

2- Topical Ht :-

- Cs
- Cs + Antibiotics
- Calcineurin inhibitors
- Emollients
- others
 ↗ Antipruritic
 ↘ lox di Na Cromoglycate

3- Systemic Ht :

- Antihistamines ✓
- Antibiotics ✓
- Cs
- Tacrolimus
- interferon
- Cyclosporine
- Rapamycin
- Zafirlukast
- Anti PDE
- IVIG
- others
 ← MTX
 ← Azathioprine
 ← Mycophenolate

4- phototherapy

5- others therapies

A. General Measures

1. Bathing

① الماء : يفضل لبانيو ١٥-١٠ دقيقة.
استخدام ماء فاتر (tepid) [تجنب استخدام الماء البارد]
(جلد يكره)
= hydration of str. corneum

• Should be:

① Non irritant e.g. Dove, Keri, Neutrogena

② acidic soap (grain Axilla) → staph

③ Antiseptics may be added to water as chlorhexidine or كلوركسين Na Hypochlorite 6.2

④ Soap used at Specifically at Groin axillae anogenital scalp ??

1/2 cup for Full Tub or 1/4 cup for 1/2 Tub. (5mL → 4L)

إضافة حاجتين
لماء لبانيو
- Cetylote
- فنجان
emulsifying
oil

⑤ إضافة مرطبات لماء لبانيو : (emollients)

as mineral or Vegetable oils

Bleach bath

زيت زيتون

⑥ الليفة : (تكون اسفنج)

XX. Avoid Rough ones Vigorous Rubbing.

⑦ بعد الحمام : يفضل ترك الجسم يدمج تشفيف أولفة بفوطه ناعمة
قبل استخدام المرطب [لا بد من استعماله على طبقة ماء]

• تجنب الجفاف بالفوطه أو استخدام (Hot air dryers)

• استخدام مرطب الجلد [في خلال ٣ دقائق]

باستخدام [Soaking & greasing Technique]

فازلين. Petrolatum oint

• fatty acids
- Linoleic
- Prim Rose oil
- Ceramide

[Oint base]

فوق طبقة رقيقة
من الماء

2 Pegam-
as

??

2. Clothes:

- Avoid \leftarrow ^{Wool} Textile fibres
- use \leftarrow Cottons liners (نكتر)
- Light & Not tight
- إزالة الحساسية من الملابس
irritation \leftarrow [إلى عارضة]

\rightarrow mild - non alkaline cleansers

3. Exercise: \leftarrow Regular & in Warm place

4. Environment: \leftarrow EXCESS dry Environment Best \leftarrow Temp = 18°C Humidity 50

5. - Avoid contact w irritants & Sensitizing substances:-

- Antihistamines (Allergex cream)
- Neomycin
- Exacerbation of lesion on Topical Cs.

6. Diet: \rightarrow

Learning point \leftarrow لا تشترى
Do not encourage crash dieting for atopic eczema. It causes anxiety and seldom if ever does much good

7. Health care Education: Psychological Relaxation & avoid Emotional stress.

CS الأول
 \downarrow
CS بجماعة مبلولة
 \downarrow
CS بجماعة ناشفة
فوق

under-occlusion

Describe the "two-pajamas treatment."

One especially effective method for applying topical anti-inflammatory medications under occlusion is known as the "two-pajamas treatment." It involves taking two pairs of cotton pajamas and soaking one pair in tepid water. At bedtime, a mild- or moderate-strength corticosteroid or calcineurin inhibitor is applied to the involved skin immediately after bathing. The wet (wrung-out) pajamas are then donned, followed by the dry pair. These are worn through the night. In the morning, this treatment can be repeated, or the patient can bathe and immediately apply emollients and clothing. This type of therapy can be modified as the "two-socks," "two-gloves," "two-caps," "two-shirts," or "two-pants" treatment as the distribution of lesions dictates.

Topical Therapies

1. Cs

شروط استعمالها :
: حالات AD

A. Ointment :

- No ACD (less preservatives < Cream)
- provide Superior Vapour barrier (moisurizing effect)

B. Potency:

infants → low potent Cs (Hydrocort. 1-2.5%)

children →

- Body → moderate potency

& Flexures - Face → Elidel or weak potent Cs

- thick LSC & lichenif →

- daily → mild Cs

- Weekly → super potent.

- Monitor for growth parameters.

C. use 2 pajamas Technique:-

(See)

oral Cephalexin

intranasal

Mupirocin oint 1-3 ms

2

Antibiotics : may be added to Cs

in cases of Acute Flare or act as Antistaph & steroid sparing

Antibs ok if.

overt clinical inf.

during Exacerbation

Atopic lesions Highly Colonized by staph

→ Fucidart (کروکسین)

Table 7.7 Principles of treatment with topical corticosteroids.

- Use the weakest steroid that controls the eczema effectively.
- Review their use regularly; check for local and systemic side-effects
- In primary care, avoid using potent and very potent steroids for children with atopic eczema
- Be wary of repeat prescriptions

ط ۲ اسبوع
بعداً ۴-۲
اسبوع تدریجاً

③ Topical Calcineurin Inhibitors (TCI): (Tacrolimus & Pimecrolimus)

used if there is:-

1. Cs Resistance

2. C.I of Cs

3. Cs S.E

Face & glion to avoid atrophy
large surface area to avoid systemic Abs
Cs sensitivity

S.E: irritation so use Cs first then Elidel

④ Emollients:

• Petrolatum = فازلين

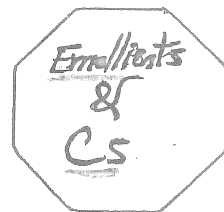
• 10% urea (كازامير)

• Crude Coal Tar in 1-5% white petrolatum.

⑤ Others:

- Classical Antiseptics
- 10% disodium Cromoglycate
- 10-30% Anhydrous Caffeine
- Calamine lot.

Table 7.8 Winning ways with emollients.



Make sure they are applied when the skin is moist
Prescribe plenty (at least 500 g/week for the whole skin of an adult and 250 g/week for the whole skin of a child) and ensure they are used at least 3-4 times a day
For maximal effect, combine the use of creams, ointments, bath oils and emollient soap substitutes

بالإش استعملها
تخفف من الحكة
??

Systemic therapy

لا فوائده
أفضل
من العلاجات

1- Anti Histamines :-

- Non sedating → No effect
- Sedating → effective by its sedating effect but not by its Antihistaminic effect (أي لا)

X Can be Combined :-

- Ketotifen → When suspected air borne Allergy
- di-Na Cromoglycate → When suspected food Allergy

2 PDE₄ inhibitors :

- X - papaverine
- X - Caffeine
- X - theophylline

Non specific PDE
Not effective??
X

كريزا بول

Crisaborole
(Eucrisa)[®]

Recent

Recently

- Imidazoleolidinone XX
- Ro 20-1724
- CP 80-633

APremilast
(Otezla)[®]

- Topical (FDA 2016)
- Systemic (Not yet FDA)

- 3- Others =
- IVIG
 - MTX
 - AZathioprine.

Phototherapy

NB-UVB → 1st of choice for Severe AD.

Other 1sts

Hypnotic

Herbal

Thyroid

Endogenous EcZ.

Seborrhoeic dermatitis

def. Type of EcZ. (or papulosq. dis.) that affect the Seborrhoeic sites

Et & pathogenesis: unknown but \pm dt:

(hypersensitivity to Malassezia)



Immuno-logical rate

Inflamm rate
①. lipase
②. +C

1-Seborrheic dermatitis is associated with normal levels of *Malassezia* but an abnormal immune response. *Malassezia* organisms are probably not the cause but are a cofactor linked to depressed Helper T cells, phytohemagglutinin and concanavalin stimulation, and antibody titers. The contribution of *Malassezia* species to seborrheic dermatitis may come from its lipase activity—releasing inflammatory free fatty acids—and from its ability to activate the alternative complement pathway. \rightarrow ROS toxic effect

2- Persons prone to this dermatitis also may have a skin-barrier dysfunction (Invest Dermatol. Feb 2008)

\uparrow TG, ch
 \downarrow Squan, FFA

Epidemiology: Age: Any but Commonest is at puberty (e peak at 40 Ys) & Neonates.

Sex & race: (No) predilection (but males slightly $>$ f).

CLP: \rightarrow Erythematous skin \bar{e} overlying greasy scales that affect Seborrhoeic sites (Hairy areas) as:

Scalp	\rightarrow Butterfly	"Blepharitis"
Face	\rightarrow Nasolabial	
Upper trunk	\rightarrow Retroauricular	
Flexures	\rightarrow Eye lid & Lash, Eye brow & gubella	
Umbilicus	\rightarrow Ext ear	
	\rightarrow Beard & Moustach	

مع زيادة إفراز
الدهون الجلدية
(Superficial form SD).

Clinical varieties \rightarrow الحاد / مزمن

\rightarrow SD may be aggravated by:

- Trauma
- Stress
- Fatigue
- Seasonal Changes & Humidity
- Drugs - clorpheniradine - Buspiron - Psoralens

griseofulvin
phenothiazine

(SP)

Sunlight \rightarrow 1st \uparrow then improved
 \downarrow general Health

HIV
Parkinsonism
CHF

may \rightarrow Erythrodermic SD

Table 17.3 Clinical patterns of seborrheic dermatitis.

Infantile (Chapter 14)	cradle	red
Scalp (cradle cap)		
Trunk (including flexures and napkin area)		
Lerner's disease		
Non-familial	→ generalized SD	→ leiner's dsc
Familial CS dysfunction	→ sulf	
Adult		
Scalp		
Dandruff (non inflamm.)		
Inflammatory—may extend onto non-hairy areas (e.g. postauricular)	(Corona Seborrheica)	Sebops
Face (may include blepharitis and conjunctivitis)		
Trunk		
Petaloid		
Pityriasisform	→ psoriasisform	
Flexural		
Eczematous plaques		
Follicular (pp. Dohier)		
Generalized (may be erythroderma)		

Immune & disorder

- (d2) effect of androgen from mother
- Seb dermatitis skin rash
 - diarrhea
 - FTR
 - ↓ CS
 - Latent

"for overlap cases"

Some NBs:

① Petaloid form (petal like):

as SLE

ago

① affect pre-sternal & interscapular areas

piel nei
neil nei

② start as: Erythematous follicular, scaly, greasy

Papules → Coalescence → Figured Circinate Eruptions.

② Pityriasisform ch-By:

more

Generalized
slow
resol

Generalized & more extensive > pit. Rosea.

in particular affect Neck upto Hair lines

Resolve spont but slower > pit. Rosea.

③ Dandruff (pit. Capitis or sicca): 2 pit oleosa

Non inflammatory SD (1st degree of S.D)

chr. Cases of scalp dandruff & SD ± Hair loss

4. Severe SD may be complicated by Eczema Else Where:

[Pompholyx
Discoid EcZ.

5. paranasal Erythema ± Flushing in Women ± SD or Rosacea.

* Histopathology → Non Specific used to Exclude other Conditions as PS

- Hyperkeratosis
- Acanthosis
- Spongiosis
- Accentuated Rete.
- ± Neut. Infiltr.

of SD

5

A

تعليمات المرفق:

1. ## is for control Not cure.
عشان كده لازم تناظربك العلاج (ممكن مدين)
2. ممنوع استعمال:
[Alcohol based solutions xx
[Hair tonics. xx
3. تغسيل الشعر بالماء والصابون باستمرار.
مفيد بـ
✓ Remove lipid
✓ substrates of Malassezia.

B

Topical ##:

1. Topical antifungals → as in TVC
 ✓ shampoos (Zn pyrithione, Tar, Selenium Sulphide)
 ✓ creams
 ↓
 Ketoconazole cr
2. Topical Cs:
ستيرويد للاستعمال

- ✓ Weak (Hydrocortisone 0.5%)
 ✓ Short course

To avoid:

- recurrence
- dependance & rebound.

3. other Topicals:

sever → 5% salicylic acid cr

- [calcineurine inhibitors
- [Imidazole 1% gel (2008) ←
- [Benzyl peroxide 5%
- [propylene glycol.

C

systemic therapy:

= syst Antifungal

1. Resistant Cases → Ketoconazole (1X1X14) اسبوعين
 → Itraconazole (1X1X21) 1.5 اسبوع
 → Lamisil (1X1X14) (1.5 اسبوع)
2. Generalized severe:
 → Prednisolone 30 mg 1d = syst cs
 → Retinoids

D

Phototherapy: (UVB) for resistant Cases.

Stasis Dermatitis

(Gravitational = Varicose EcZ.)

Def.: Stasis dermatitis is a common inflammatory skin disease that occurs on the lower extremities in patients with chronic venous insufficiency with venous hypertension.

قراءة سريعة

Pathophysiology: الخطوات التالية

↓ valve competency (Disturbed function of the 1-way valvular system in the deep venous plexus of the legs).

d.t ① Aging.

② DVT

③ Surgery (stripping or saphenous V. harvesting for coronary by pass).

④ Traumatic injury

Chronic venous insufficiency (backflow of blood from the deep venous system to the superficial venous system).

Venous hypertension

Stasis dermatitis

→ There are 2 Theories Explaining the mechanism by which the Venous HTN can cause cut. inflamm. of Stasis Dermatitis:

① Stasis / Hypoxia theory: Stasis of Blood inside superficial venous system → Hypoxic damage of overlying skin.

← Not Accepted because leg veins in those = not stasis patients were shown to have ↑ Flow rates & High O₂ Tension. (unknown Et.).

بسبب هذه النظرية فأن الدم يتجمع في الأوردة السطحية مما يؤدي إلى نقص الأكسجين في الجلد.

② Fibrin cuff theory (Dermal Microcirculation theory):-

- Venous HTN → ↑ permeability of dermal capillaries → Fibrinogen leakage → Fibrin → Fibrin Cuff forms around dermal capillaries.

الأغ

5

Fibrin Cuffs around Dermal Vs

بجمل ما يجرى

Barrier

Leukocyte

TGF B1
ICAM1
VCAM1

Serves as barrier to O2 diffusion to skin

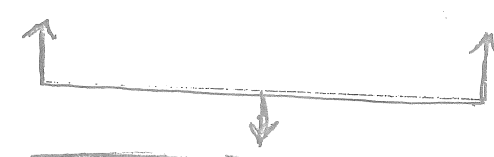
Traps activated Leukocytes

يمنع وصول
O2
للجلد

Tissue Hypoxia & Cell damage.

1. Release of TGF.B-1 (mediator for dermal fibrosis)

2. ↑ Expression of ICAM-1 & VCAM-1 (Potent chemotactants to keep Leukocytes in perivascular Environment).



proteolytic enz
Free radicals
↓
Tissue damage

Cut. inflamm. & Fibrosis

HL → NB, 3 factors contribute in formation of fibrin cuffs:-

1. ↑ permeability of Dermal Capillaries (d.t ↑ press)
2. ↓ Cut fibrinolytic activity
3. Leukocyte-Mediate cytokine production

- Dermal fibrosis is the hallmark of advanced stasis D.
- Fibrin cuffs not found in ulcers d.t causes other than Venous HTN.
- Hennry et al (2001) → suggested that metalloproteinases may be important in lesional skin remodeling in persons with stasis D.

Epidemiology:

- Incid : 6% in pts > 50 yrs & 20% in those > 70y
- Age : usually > 50y
- Sex : F+ > M (Effect of preg. on venous system)

عشان الجلد

Clp: The medial Ankle is most frequent & severely involved area (because it represent a water shed area with relatively poor Blood Flow compared with rest of the Leg); with advancement of the dis → encircling of ankle, Below Knee Extension (Stocking Erythroderma) & ± dorsal feet.

site
سیت
کانہ شراب

lesin → ① Reddish-Brown discoloration is the Earliest sign.
② There are Severe acute inflammatory, weeping Pathes & plaques that may be ass. with:

Complications:-

- 1- Impetiginization & Dry bact. inf.
- 2- Cellulitis

3- Idl Reactn

4- lichenification

5- Hyperpig.

6- Lipo dermatosclerosis

7- Atrophie blanche

8- ulceration (stasis ulcer)

9- CD (sp. from Ht)

Honey-colored Crusting (d.t. bact.) or Monomorphous pustules (d.t. Candidiasis).

- long standing lesions may show:

1- Hyperpig.

2- lichenification ?? (Hemosiderin deposits)

3- Lipo dermatosclerosis (Dermal fibrosis with inverted champagne bottle appearance).

4- Pseudo Kaposi Sarcoma = Angiodermatitis

- unique feature may be seen in stasis D ch by Violaceous nodules & plaque on dorsal feet that may undergo painful ulceration simulating "Kaposi Sarcoma"

x ① Skin may show other venous insufficiency changes:-

Edema

Varicosities

Atrophie blanche

Hyperpig. (d.t. Hemosiderosis)

Investigations:

1- Doppler studies → diagnosis of DVT & Valve incompetence

2- Histopath.: [A] Acute & subacute lesions → Spongiosis with superficial perivasc. infilt.

[B] - Chronic:

- Acanthosis

- Hyperkeratosis

- deep dermal aggregates of Siderophages.

- dermal fibrosis
[intimal thickening of arterioles & venules.

u)
Eczema
+ Hemosiderosis

Q^{NB}

diff. bet Pseudokaposi & Kaposi :

preexisting

pseudokaposi: Typical changes of stasis D.
+ capillary & fibroblast prolif.

Kaposi: Vascular slits + Atypical endothelial cells + prolif. of vs independent of the preexisting one.

(افكر قبل ان يكونت جرعة أولية)

Treatment (2007)

Compression therapy

① by spec. stockings that deliver controlled gradient of pressure

② always Leg elevations
دائما ببيت رافع، جله ٢ شاش
الطبوس اولين و صبا
لبس لشراب (lower leg)
Edema
قبل ارتعال شراب لانفس.

Assessing pt. arterial circulation as if there is impaired circulation → ↑ claudication & ± ischemic damage

Medical ttt

① A cute Weeping: -

ecz → Burkout (K perme. snite) → ligat.
SoL + Mod. ssal (8000) → ligat.
Potent Cs (oint)

② Chr. stasis D → calcineurin inhibitors

Why (No Atrophy & ↓ SE of Cs
No Tachyphylaxis)

① incompetent perforators

② Hemosiderosis
IPL
(2008)

③ ttt of inf: Topical & systemic Antibiotics

CD. Neomycin Bacitracin

④ systemic Cs: if there is systemic autoeczematization

⑤ long Term: Emollients ✓ under occlusions.

لا حظ: شروط استعمال ال Cs

① oint
② Mod. potency (super potent → systemic absorption → Atrophy → ulcer)
③ Not for long duration

Recent ttt

use of drugs that Neutrophil Mediated cytokines Release as:-

- ① pentoxifylline
- ② PGE1.

10

K⁺

Ω ± :

- (aggravating factor)

of feet

the 1^{ry} Lesion is
pustules (not clear vesicles)

- usually no remission
of the vesicles always
present.

Epidemiology:-

- 3rd most common cause of Hand ECZ.
- usually affect middle Aged (≈ 38 Ys)
- M=F

CIP: Acute onset of Eruption of ^{غالباً حادة} Maculopapular, ^{تقرحات} deep seated Vesicles & bullae on NL background on Both Palms & soles & Sides of Fingers.

Nail fold
+ affected \rightarrow
Nail dystrophy.

- Commonly there are 2 ss:-

"مقدمة" \rightarrow pruritus: may precede the Eruptn.
[Hyperhidrosis]

- Site:
[Palms only \rightarrow 80% (Called cheiropompholyx).
[Sole " \rightarrow 10% (" Pedo ")
[Palm & Sole \rightarrow 10%]

- Fate: outbreaks resolve spontaneous over several ws ($\geq 2-3$ ws) & Recurrence is Common (60%) at intervals of $\approx 3-4$ ws for ms - Ys.

$\text{CD} = \text{NB}$ - Uncommon unilateral cases \rightarrow suspect CD.
 $\text{CD} \rightarrow$ unilateral
 Ch vesiculobullous dermatitis
على طرف واحد
- Pompholyx should be reserved for typical cases in w attacks resolve & recur while Chr recurrent vesiculatn without remission called chr. vesicular dermatitis.

Histopathology: - Spongiosis & epid. Lymphocytic infilt.
- intraepidermal Vesiculatn

TH: [1] remove possible causes:

hyperhidrosis TH

[Stress] [Hyperhidrosis] [CD] [Fungal inf]

المستحبات
Al. acetate

[2] acute cases \rightarrow Drying antiseptic lotn. Drainage of large bulla

[3] subacute & chr. cases \rightarrow Cs oint, Emollients & Keratolytics

[4] Resistant cases \rightarrow MTX & radiatn TH, photochemo therapy.

Asteatotic Eczema
Eczema craquelé, Xerotic eczema, Chapping

= Pissuring
Ref. All sources

Def. Eczema characterized by pruritic, dry, cracked, and polygonally fissured skin with irregular scaling. It most commonly occurs on the shins of elderly patients, but it may occur on the hands and the trunk.

Etiology and pathophysiology:

Causes

↓ lipids & water of skin

*Multiple etiologic factors may coexist to cause asteatotic dermatitis, including the following: (All are associated with ↓ lipid content of skin):

↓ NMF
Natural Moisturizing Factor

- ← **Aging:** due to ↓↓ sebaceous and sweat glands activity and ↓↓ Keratin synthesis.
- ← **↓ humidity and cold:** → increase the loss of water by convection.
- ← **Wrong Behaviour:** - Frequent or prolonged bathing in hot water and use of soaps, infrequent use of emollients and use of Degreasing agents (Solvents and Cleansers)
- ← **Atopy**
- ← **Ichthyosis**
- ← **Radiation**
- ← **Drugs** - Antiandrogen therapy⁵ and diuretic therapy
- ← **malabsorption and Nutritional deficiencies** of essential fatty acids, including linoleic acid and linolenic acid, Zinc deficiency³
- ← **Thyroid disease** - Myxedema and other thyroid diseases with diminished sweat and sebaceous gland activity⁴
- ← **Neurologic disorders** - Decreased sweating in denervated areas
- ← **Malignancies** - Malignant lymphoma,⁶ gastric adenocarcinoma,⁷ glucagonoma, angioimmunoblastic lymphadenopathy,⁸ breast cancer, large-cell lung carcinoma, and colorectal carcinoma⁹

دال Scrub

Epidemiology: * Age: elderly >60 y.

* Sex: M > F

c/p: **Primary lesions:** Slightly scaly, inflamed, curvilinearly cracked and/or fissured skin most commonly involves the pretibial areas, but it may also occur on the thighs, on the hands, and on the trunk (Fitzpatrick likened asteatotic eczema to a dried-up riverbed).

الذائف المصحقة

بهرش مفرط

شبه

Secondary lesions: Excoriated, erythematous, edematous patches may result from rubbing or scratching.

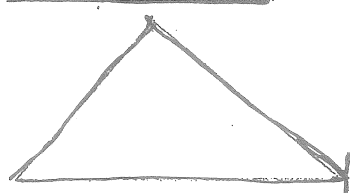
Clinical types: 1-localized: usually pretibial

2- Generalized (Ichthyosis): ?? M > F

III

1- تعليمات للمريض : الحمام بتابعك لازم

- 1- لفترة قصيرة (1-2 أسابيع)
- 2- بماء فاتر
- 3- بلا شامبو صابون
- 4- بلا شامبو صوف
- 5- استخدم Humidifier



3 Topical Cs

2

Emollients:

استعماله بعد الحمام مباشرة (AD)
استعماله يوميا . 2-3 مرات على اليوم

Soaking and Greasing:
(Soak & Smear) Technique

Soaking: of affected part in Tepid Water for 10 min

Greasing (Smear): Immediate use of mild Cs on

انقع في الميه 10 دقائق
ادهن على طول

من ماء طعمه ع - ع ابيض - نتيجته ممتازة

Mid Topical Cs (III-IV)

يمكن استعمالها بالجرعة
من اثنين

2
A Soaking & Greasing

B Underocclusion for 1-2 ds

Nummular Eczema

(Discoid EcZ.)

14

Def. Type of Endogenous EcZ. ck by:

Well defined, Coin-shaped, scaly, plaques
usually on arms & legs. w are { very itchy &
very persistent

• AET & pathophysiology :-

Atopy 1. AD (recently considered as Adult onset AD)

2. Infects (staph usually colonize or infect it).

3. Emotional stress.

4. local & physical Trauma: hypertension

- Insect bite

- Abrasions

- CD

Weg 5. Xerosis → disturbed barrier → ↑ Penetration of
Allergens → CD.

6. Alcohol Abuse.

Drugs = 7. Generalized form Recently ass e:

IFN III for hepatitis C
Ribavirin
Anti TNFα

8. Autoeczematization

Discoid EcZ hypertension

C/P: 1. Age: 2 peaks

60-70y (++) (20-30y) (+)

CIP : Well demarcated coin shaped plaques of closely set, thin walled vesicles on an erythematous base or are dull red, oozy → this may be followed by central clearing & peripheral extension → ring shaped or annular lesions may fade → dry scaly patches.

pib

chically.
[Very itchy &
Very persistent]

after any period bet lads - ms; (2ry) lesions occur often in a mirror image configuration on opposite side of Body.

a very chic feature of ECZ. that: the patches w have apparently become dormant may become active again specially if tt is discontinued prematurely.

3 patterns are recognized:-

- 1. Discoid ECZ of hands & forearm
- 2. " " " Limbs & Trunk
- 3. DRY Discoid ECZ.

- Type 1 → dorsal Hands & Finger sides
- Type 2 → seen in elderly & pts. w Xerosis.
- Type 3 → Dry discoid plaques on legs & arms, mild itchy (dry & scaly) & resistant to tt

Course Waxes & Wanes for years with recurrence in cold or dry climates

Is there a cure for nummular dermatitis?

No. However, the disease can be controlled. Many of the same principles apply here that apply to the treatment of atopic dermatitis. Limiting baths and soap exposure, avoiding irritants, frequent use of emollients, topical corticosteroids, avoiding dry environments, and antihistamines all have a role in treatment. Topical corticosteroids are the mainstay of therapy. With the high rate of staphylococcal colonization, many dermatologists routinely prescribe 2-week course of oral antibiotics.

staph carrier
and

such as dicloxacillin or cephalexin. Systemic steroids should be used only for severe cases and limited to a tapered course over 2-3 weeks. Severe chronic cases may also benefit from PUVA.

Does nummular dermatitis resolve spontaneously?

Yes, but not often. In a prospective study of patients followed for 2 years, 22% were disease-free. Another 25% were free of lesions for weeks to months, but 53% were free of lesions only with continued local therapy. If there is no clearing within 1 year, the disease tends to persist for many years.

Waxes & wanes
over yrs

HH

Juvenile planter Dermatitis

(DNNZ)
Androm
Reak (19)

def Eczema affecting the feet of children.

Aet: Repeated friction & Macerata of feet by:

الكروش

1. occlusive shoes specially Athletic shoes
2. Abrasive effect of pool surfaces or diving board
3. Thin Non-absorbent synthetic socks.

4
Some consider
it manifests
of AD.

يُعتقد أن سببها هو التغيير إلى حبل في آخر سنة في صناعة الأحذية وشرائح الأطفال.
حيث تم استبدال المواد الطبيعية (الصوف، القطن، الجلد) بمواد صناعية (نايلون وبلاستيك).
والتي تتميز بامتصاص الماء (صناعية) لا فضاعة إلى نظيفة الأحذية بمواد repellent.
على أن تكون من durability صناعة سطح كزراء.

all these: ↑ Humidity → Feet macerata → sweat retention
→ aggravate the condition

ليسدة من كل بقعة لانه لو وضع في الأطفال إلى يتلبس
(So role of friction considered) ✓

CIP

Age: (3y) - (puberty) (14)

- 2 start as bilat, symmetrical red glazed
smooth patches at medial or dorsal
Aspect of (Big Toe) → then spread to
involve weight bearing areas of feet
as forefoot. (Heel less affected).

Note: Webs & arches are spared.

DD: [AD [psoriasis
CD [fungal inf.

Treatment: (1) Reduce friction: شريحة القدم شرائح فردية مدر - شريحة القدم شرائح فردية مدر (Prolonged foot wear).

ممكن تخفيف
الضغط على القدم

(2) Emollient.

(3) Have rest day: schedule quite time &
little or no walking
to allow for healing of fissure

(4) Topical Cs

Hand eczema

Hand eczema is such a common and distressing condition, and poses such difficult problems for the dermatologist, that it deserves separate consideration. Up to 30% of occupational medical practice relates to hand eczema, with important issues regarding medical litigation, worker's compensation and disability. One-quarter of the patients referred to a specialized contact dermatitis clinic suffered from hand dermatitis.

Classification: 1-Etiologic classification (Roz. K.) 2-Morphologic classification 3-Classification Acc. to the Age. 4-Etiologic classification

Most common exogenous cause →

Exogenous	Endogenous
<p>1-ACD:</p> <ul style="list-style-type: none">• Delayed hypersensitivity (type IV) (e.g. chromium, rubber)• Immediate hypersensitivity (type I) (e.g. seafood) <p>2-ICD:</p> <ul style="list-style-type: none">• Chemical (e.g. soap, detergents, solvents)• Physical (e.g. friction, minor trauma, cold dry air) <p>3-Ingested allergens (e.g. drugs, possibly nickel, chromium)</p> <p>4-Infection (e.g. following bacterial infection of hand wounds)</p> <p>5-Secondary dissemination (e.g. dermatophytide reaction to tinea pedis)</p>	<p>1- Atopic</p> <p>2- Dyshidrotic (Pompholyx)</p> <p>3- Psychosomatic (↑↑ Eczema > Initiation) → aggravate ecz</p> <p>4- Idiopathic (Discoid & Hyperkeratotic palmar EcZ).</p>

2-Morphologic classification

- 1-vesiculobullous hand eczema(Pompholyx) / & Patchy vesiculosquamous
- 2-hyperkeratotic hand eczema / 7
- 3-dry palmar eczema = House wives EcZ = Wet & tear dermatitis
- 4-finger tip eczema
- 5-ring eczema
- 6-Localized thumb EcZ
- 7-discoid eczema
- 8-chronic acral dermatitis
- 9-apron eczema
- 10-gut eczema
- 11-other patterns (eg.patchy vesiculosquamous)

Not itchy
1- No vesicles
→ Recurrent local palmar peeling.

1- chr. Vesiculobullous Hand EcZ = see Pompholyx.

2) Hyperkeratotic Hand ECZ (Tylotic ECZ)

- Unknown Etiology
- (M) > F usually middle aged & over
- CLP → highly irritable scaly fissured, Hyperkeratotic patches on palms & palmar aspects of fingers.
- DD: Palmar PS → "ch. BX":
 - silvery scales
 - Sharply demarcated Scalloped edges to the Erythema along borders of < Hands & Fingers.
 - Absence of pruritus xx
 - involvement of Knuckles.
 - Nail Pitting (cut nail fold affects)
 - other psoriatic sites.
- tt: (Extremely refractory to tt):
 - CS + Keratolytics
 - PUVA
 - Etretinate
 - Grenz Zone-tt

حرف ج
مقابل
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مقابل

3) Dry Palmar ECZ = Housewives ECZ =
Wear & Tear dermatitis:

- usually affect Housewives & cleaners & contact with water, detergents, soaps, solvents & even food cuttings. (S.S)
- The skin looks Dry, criss crossed & superficial Cracks ass. with damaged Horny layer & unable to respond & its Normal pliability to hand & finger movement.
- there may be ass. with dorsal Hand chapping

4) Finger-Tip ECZ: - affect palmar aspect of finger tips usually localized but may extend to the palms.

CLP - finger tips are → dry, cracked, painful & fissured.

+ There are 2 Types ^{Finger Tip ECZ}

Type I (Common)
affect most of all fingers of
dominant hand specially
Thumb & forefingers

↓ its dit
ICD (Cumulative)

Type II (less Common)
affects Thumb, Forefinger &
Ring Finger of dominant
hand → usually occupational

↓ ± dit
ICD
ACD

⑤ Ring ECZ

→ accumulation
of solvents
& soaps
under Rings

cause:

• سبب حساسية اليد، الحاف
نتيجة تراكم الصابون والمواد المنظفة ليست
حاجبة لاجابة اليد او الحاف

site: Wedding ring finger & may extend to
middle finger

⑥ Localized Thumb ECZ

- child who
put fingers in mouth.

من الأطفال يضعون الاصابع في
الفم

- may be assoc. → Nail dystrophy

⑦ Discoid ECZ → see before

ECZ.
+
↑ IgE

↓
Cs systemic

⑧ Chr. Acral dermatitis:-

chr.

- distinctive synd. ch-by hyperkeratotic papulo-
Vesicular ECZ of Hands & Feet intensity
Pruritic & is assoc. with marked ↑ IgE in
middle Aged without personal or FH of Atopy

⑧ → Cs (systemic); Topical not effective
XX

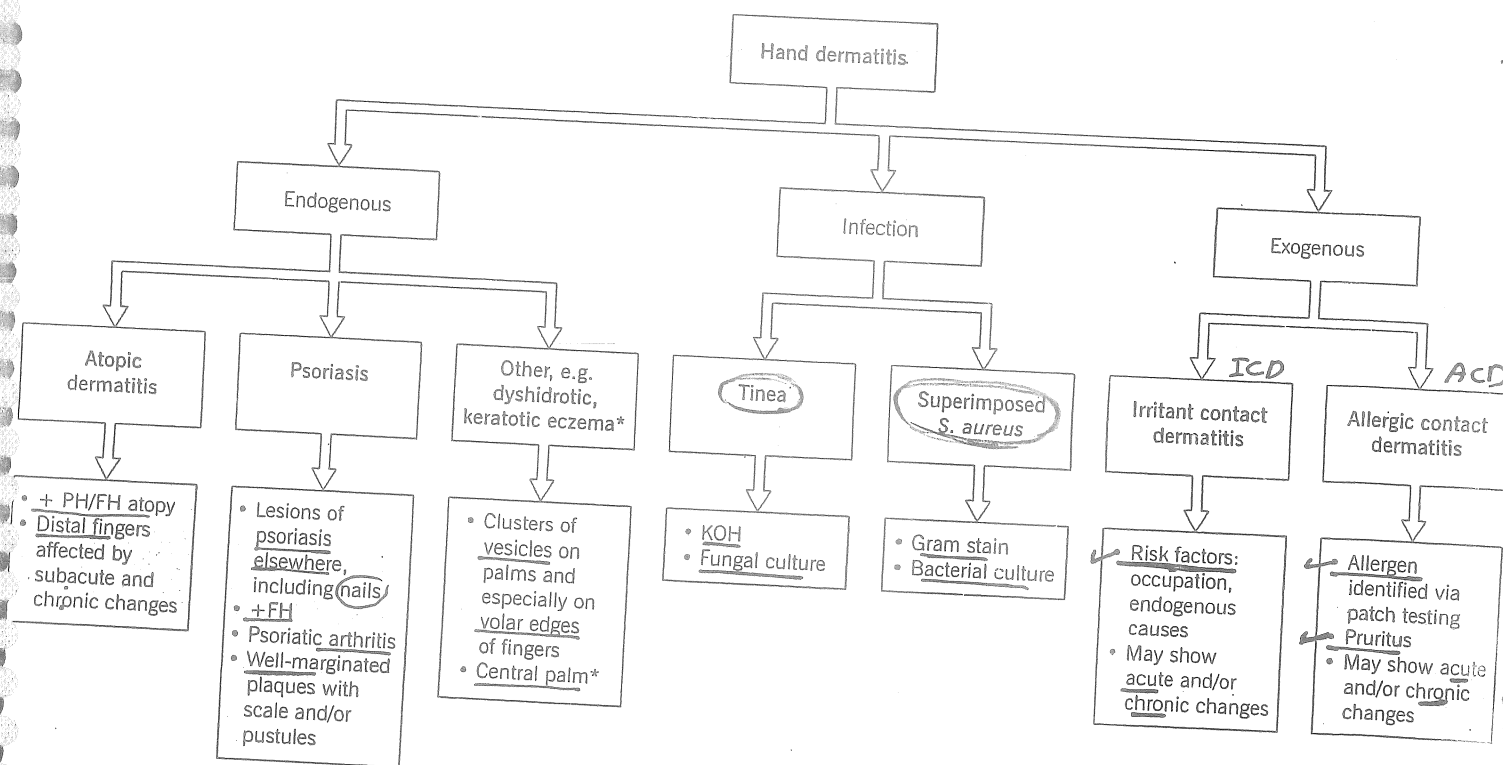


9 Apron ECZ : ECZ. Caused by ICD affects palmar Aspects of Adjacent Fingers & Forming in a circular pattern over MCP in a pattern - Resembling Apron.

10 Gut ECZ (Slaughter house ECZ):

- This Type of ECZ affect Workers who eviscerate & clean pig carcasses
- Clp: Vesicular ECZ. starts at fingerwebs & spreads to sides of fingers.
- Usually self limiting & clears in ≈ 1-2 wks but may recur.
- Et : unknown but ± d.t. Fat or blood ICD.

11 Patchy Vesiculosquamous ECZ : Bilat, Asymm. mixture of irregular, patchy, Vesiculosquamous lesions



* some clinicians view keratotic eczema as a form of psoriasis

Classification of hand dermatitis. More than one etiology may be present, e.g. atopic dermatitis plus irritant contact dermatitis. FH, family history; nistroy. Courtesy, David E. Cohen, MD.

Lichenification

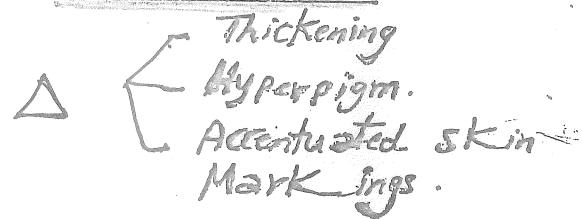
Introduction

Lichenification is a pattern of skin response to repeated scratching or rubbing, characterized histologically by acanthosis, hyperkeratosis, and elongated rete ridges, and clinically by a thickened skin, with accentuation of the surface markings so that the affected skin surface resembles tree bark. It may be primary (lichen simplex), without an itchy skin disease and caused by emotional tension, or secondary to an itchy skin disease as venous eczema, atopic dermatitis, chronic contact dermatitis, or chronic infection with *T. rubrum* of thighs or feet.

2 hyperpig

Lichen simplex chronicus (LSC) (localized Neurodermatitis)

Def. Reactive pattern of skin that arises (2ry) to repeated scratching or rubbing [so it's not a 1ry process] & ch-by cut. lichenification Δ of:



Etiopathogenesis unknown but ±:

• Emotional stress \rightarrow sensatn of Burning or Pruritus \rightarrow rubbing
 \rightarrow lichenification \rightarrow More rubbing \rightarrow More lichenific.
(Viscious Circle of itch/scratch cycle)

Epidemiology: Age: any but usually (30-50y)
Sex: (♀) > (♂)

CIP (1) itching: severe & occurs in paroxysms of great intensity \rightarrow till soothing.
• there is refractory period of some hours before until itching recur.

(2) Skin lesion: - at first: Erythematous, Edematous
Excoriated plaques مع الزخم classical picture of lichenification
- Lichenified papules \pm seen. 68

• Site: Most Common sites are:

Nape Neck → [Occiput
Nuchal area (Lichen Nuchae)] (♀)
— Perineum & Scrotum (♂)
[Wrist & Ankle
Extensor forearms]

• NB: ① Giant lichenification of Pautrier
LSC in areas of loose S.C.T as "Genito-Cervical"
area → Solid Tin like plaque & Warty
Cribriform surface.

② Notalgia Parasthetica LSC at inf. tip of
Scapula.

• Pathology → see lichenification

DD ① lichen amyloidosis ② L-p ③ Ps.

treatment:-

1. Stop itching (Break the itch/scratch cycle):-

[Anxiolytic
ترنابان

2. Cs: Topical & ILs

3. Emollients

(2009)

(JAAD 2001)

4. Antihistamines, Botox, Topical Aspirin / dichloromethane

5. TENS (Transcut Electric N. Stim).

Other Types of Eczema

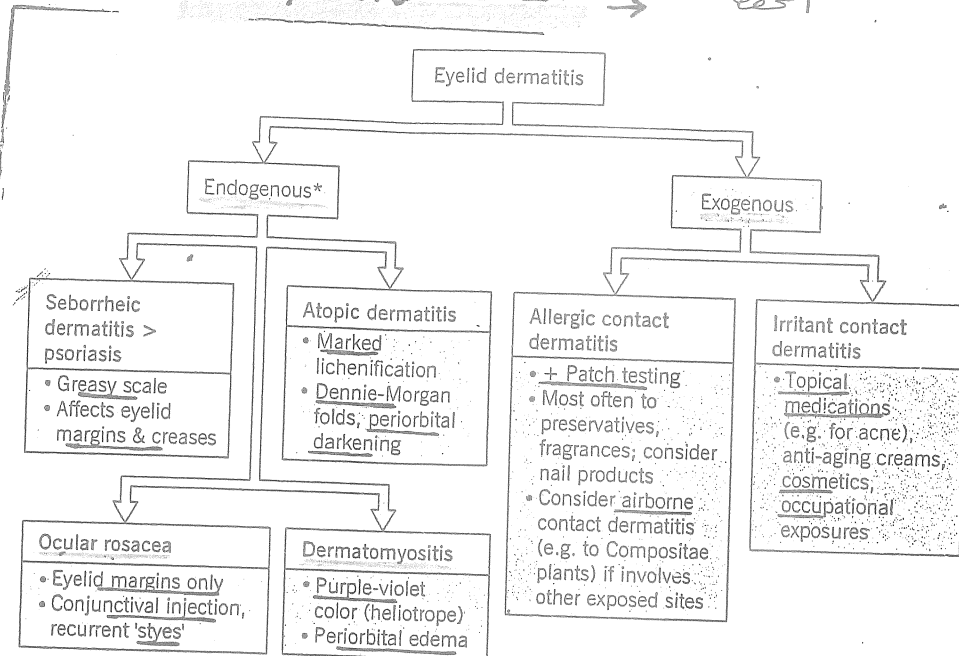
- Frictional lichenoid Dermatitis
- Eye-lid EcZ.
- Breast EcZ.

• Sandbox or frictional lichenoid Dermatitis.

- pin-head sized, white papules at friction sites
- Etiopath. ?? friction or sun.
- DD: lichen-nitidus.

(NB) In Adults: Dermatitis papulosa
Juvenilis

2. Eye-lid EcZ. →



*Diagnostic clues include a history of the condition and characteristic lesions elsewhere

Fig. 13.6 Classification of eyelid dermatitis. (More than one etiology may be present, e.g. atopic dermatitis plus irritant contact dermatitis.)

3. Breast Eczema (Nipple EcZ.)

- ± Affect Nipple, Areola & Surrounding skin. (specially of Nursing Mother).
- Etiology: CD, ND, AD, SD
- TH: As EcZ. → if No response → Biopsy to Exclude "Mammary Pagets" ??
- Unilat.
- Not responding to CS

Acroangiokeratosis

Acroangiokeratosis

(Synonyms: pseudo-Kaposi's sarcoma, acroangiokeratosis of Mali-Kuiper, gravitational purpura, stasis purpura)

Definition: was first coined by Mali in 1965. [1] It is a proliferation of pre-existing vasculature seen in venous hypertension, arteriovenous malformation, or acquired iatrogenic arteriovenous (AV) fistula.

Etiopath. : chr venous insuff → Venous HTN → Tissue Hypoxia → Neovascularization & Fibroblast proliferation

C/P: Confluent, violaceous or brown-black papules cover large areas of the distal parts of the legs. Ulceration and bleeding are sometimes noted. Bilateral lesions are usually associated with chronic venous insufficiency, whereas unilateral lesions suggest an underlying vascular malformation.

Types:

- 1] Mali Type → ass. with Stasis Dermatitis
- 2] Stewart-Bluefarb Type → ass. with Cong AV malformation
e.g. Klippel Trenauay synd
- 3] Dermite Ocre of Favre: ass. with pregnancy.
- 4] other Types:
 - ① AV Fistula of shunt in CRF → stump Dermatitis in Amputees
 - ② HcV ass. (EMed. 2010).

	Acroangiokeratosis of Mali	Kaposi's sarcoma
HP	Small dilated vessels lined by <u>plump</u> endothelial cells with hyperplasia of pre-existing vasculature	Slit-like spaces and spindle cell proliferation.
PAS	<u>+ve</u>	<u>-ve</u>
Factor VIII Ag in Endoth	<u>+ve</u>	<u>-ve</u>
CD34	Positivity seen on endothelial cells of hyperplastic vessels	Positivity seen on both endothelial cells and the characteristic spindle-shaped, perivascular cells
RBCs extrav Hemorrhage & Fibs	Present	Present

Treatment

- 1- Correction of the underlying chronic venous insufficiency and vascular malformations
- 2- Systemic therapy: Various medical modalities of therapy have been tried with favorable results but options are limited. Oral erythromycin 500 mg four times / day (2)
- 3- Topical Cs
- 4- Vascular Lasers.

Dyshidrotic Eczema (Pompholyx, Vesiculobullous hand eczema)

Def: Dyshidrotic eczema is a recurrent or chronic relapsing form of vesicular palmoplantar dermatitis of unknown etiology. Dyshidrotic eczema also is termed pompholyx, which derives from cheiropompholyx, which means "hand and bubble" in Greek.

Etiology and pathophysiology: The etiology of dyshidrotic eczema is unresolved and is believed to be multifactorial. Dyshidrotic eczema is considered a reaction pattern caused by various endogenous conditions and exogenous factors: $\infty \pm$

- * 1- Genetic: \rightarrow (AD) Familial pattern \pm present
 \rightarrow Pompholyx gene in Chromosome 18q12.1-3
- 2- Atopy (50% of cases).
- 3- dyshidrosis: Not a cause but associate it in 40% of cases & its improves pompholyx.
- 4- Emotional Stress.
- 5- CD (Nickel or Cobalt in diet).
- 6- septic focus e.g. Strept or dermatophytide.
- * 7- Drugs: Aspirin, IVIG & PUSA.

- Cip: Acute onset of eruption of Bilat & Symmetrical Deep seated Vesicles & Bullae at Palms (Cheiropompholyx), Soles (Pedopompholyx) or Both. Nail fold may be affected \rightarrow Nail dystrophy. ass. \bar{e} severe itching & Burning.
- Exacerbation & Remission is Common (Chronic Vesiculo-Bullous Eczema).
- Unilat. cases may be d.t. (CD) موجوده عل طوره
- 3rd Most Common Type of Hand EcZ. usually affect middle Aged.

1- treat the underlying cause.

2- Vesiculo- lesion \rightarrow drying Antiseptic lot.

3- chronic \rightarrow CS, Emollient & Keratolytic

4- Resistant cases \rightarrow systemic CS
- MTX
- Radiat.

my lesion
is pustules
 \uparrow
DD: pustular psoria
از آفات تفرقه

Nummular Eczema

(Discoid Ecz.)

(14)

Def: Type of Endogenous Ecz ch BY:

Well defined, Coin-shaped, scaly, plaques

usually on arms & legs. w are very itchy & [very persistent

• AET & pathophysiology :-

"Atopy" ①- AD (recently considered as Adult onset AD)

②- Infection (staph usually) colonize or infect it.

③- Emotional stress.

④- Xerosis

C/p: Discoid plaques ch BY:

- May undergo central clearing → Annular lesion.

- Very itchy, very chronic

- usually at: Forearms, legs, Hands, Lumb & Thunk

- Staph. has a Marked Role → AB

- More in Elderly (60-70ys)

Is there a cure for nummular dermatitis?

No. However, the disease can be controlled. Many of the same principles apply here that apply to the treatment of atopic dermatitis (Limiting baths and soap exposure, avoiding irritants, frequent use of emollients, topical corticosteroids, avoiding dry environments, and antihistamines all have a role in treatment. Topical corticosteroids are the mainstay of therapy. With the high rate of staphylococcal colonization, many dermatologists routinely prescribe a 2-week course of oral antibiotics

such as dicloxacillin or cephalixin. Systemic steroids should be used only for severe cases and limited to a tapered course over 2-3 weeks. Severe chronic cases may also benefit from PUVA.

Does nummular dermatitis resolve spontaneously?

Yes, but not often. In a prospective study of patients followed for 2 years, 22% were disease free. Another 25% were free of lesions for weeks to months, but 53% were free of lesions only with continued local therapy. If there is no clearing within 1 year, the disease tends to persist for many years.

قواعد عامة

staph Carrier fil
ABs
Topical Cs
Emollients
Antihistamine
Syst Cs
PUVA

##

Pate

def: Non specific dermatitis of unknown Aetiology that causes Erythematous scaly patches → these resolve & leave areas of Hypopigm that slowly repigment to NL.

Aetiology: unknown but ± d.t:

- assé
- 1. Atopy
 - 2. strept. inf.
 - 3. Sun Exposure (ظروف)
 - 4. ↓ Zinc.
 - 5. ↓ Fe
 - 6. Parasitic infestations.

7. Malassezia. produces a substance² called pityroctin → sun filtrate (prevent Natural sun Tanning).
Topical Antifungal are plb

CIP: ① usually affects dark skin children at summer

② has (2) stages: fr

• Early: ill defined pink erythematous, scaly lesions →
• Late: Hypopigmented (ill defined & scaly)

③ usually at sun exposed areas

④ Clinical Varieties:

① classical Type: at sun exposed areas

② Generalized = Bilat & symm.

③ Pigmenting = Central bluish Pigmented surrounded by ill defined slightly scaly Halo at the face.

Treatment: ① Treating the cause e.g. Sunscreen, Parasites, Vit. deficiency

↓
وبقعة
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② • Early stage → Hydrocortisone 1%
• Late → Emollient

③ Some Authors: EZalline (Similar to Vitilligo Htt) →

Hand eczema

حکری

Hand eczema is such a common and distressing condition, and poses such difficult problems for the dermatologist, that it deserves separate consideration. Up to 30% of occupational medical practice relates to hand eczema, with important issues regarding medical litigation, worker's compensation and disability. One-quarter of the patients referred to a specialized contact dermatitis clinic suffered from hand dermatitis.

Classification: 1-Etiologic classification (Rec-B) 2-Morphologic classification 3- Classification Acc. to the Age.

Exogenous	Endogenous
1-ACD: -Delayed hypersensitivity (type IV) (e.g. chromium, rubber) -Immediate hypersensitivity (type I) (e.g. seafood) 2-ICD: -Chemical (e.g. soap, detergents, solvents) -Physical (e.g. friction, minor trauma, cold dry air) 3-Ingested allergens (e.g. drugs, possibly nickel, chromium) 4-Infection (e.g. following bacterial infection of hand wounds) 5-Secondary dissemination (e.g. dermatophytide reaction to tinea pedis)	1- Atopic 2- Dyshidrotic (Pompholyx) 3- Psychosomatic (94% Eczema > Irritation) 4- Idiopathic (Discoid & Hyperkeratotic palmar ECZ.)

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Id

2-Morphologic classification

- 1-vesiculobullous hand eczema (Pompholyx) / & patchy vesiculosis.
- 2-hyperkeratotic hand eczema (Follicular ECZ.)
- 3-dry palmar eczema (Housewife ECZ)
- 4-finger tip eczema
- 5-ring eczema
- 6-localized thumb ECZ (الظفران)
- 7-discoid eczema
- 8-chronic acral dermatitis (Hand ECZ + ↑ IgE)
- 9-apron eczema (زیر پیراهنه بیماری)
- 10-gut eczema (بیماری معده) → blood, stool (ICD)
- 11-other patterns (eg. patchy vesiculosquamous)

در آکنه، التهابات، آبرو، التهابات، (تقریرات) التهابات

1. پوستی با سوراخ، زخم و قطع لاک

- Treatment
- 2. Potent or superpotent Cs for 2-3 wks → Week-end
 - 3. +5 ds / wk → Weak potent Cs ~ Tacrolimus.
 - 4. Emollients: عصاره روغن یا شکر، لایق